

This Page Is Inserted by IFW Operations  
and is not a part of the Official Record

## **BEST AVAILABLE IMAGES**

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

**IMAGES ARE BEST AVAILABLE COPY.**

**As rescanning documents *will not* correct images,  
please do not report the images to the  
Image Problem Mailbox.**



FIG. 1

SEQRES	1	A	297	MET	ALA	LEU	ALA	PRO	ASN	GLN	ALA	LEU	LEU	ARG	ILE	LEU
SEQRES	2	A	297	LYS	GLU	THR	GLU	PHE	LYS	LYS	ILE	LYS	VAL	LEU	GLY	SER
SEQRES	3	A	297	GLY	ALA	PHE	GLY	THR	VAL	TYR	LYS	GLY	LEU	TRP	ILE	PRO
SEQRES	4	A	297	GLU	GLY	GLU	LYS	VAL	LYS	ILE	PRO	VAL	ALA	ILE	LYS	GLU
SEQRES	5	A	297	LEU	ARG	GLU	ALA	THR	SER	PRO	LYS	ALA	ASN	LYS	GLU	ILE
SEQRES	6	A	297	LEU	ASP	GLU	ALA	TYR	VAL	MET	ALA	SER	VAL	ASP	ASN	PRO
SEQRES	7	A	297	HIS	VAL	CYS	ARG	LEU	LEU	GLY	ILE	CYS	LEU	THR	SER	THR
SEQRES	8	A	297	VAL	GLN	LEU	ILE	THR	GLN	LEU	MET	PRO	PHE	GLY	CYS	LEU
SEQRES	9	A	297	LEU	ASP	TYR	VAL	ARG	GLU	HIS	LYS	ASP	ASN	ILE	GLY	SER
SEQRES	10	A	297	GLN	TYR	LEU	LEU	ASN	TRP	CYS	VAL	GLN	ILE	ALA	LYS	GLY
SEQRES	11	A	297	MET	ASN	TYR	LEU	GLU	ASP	ARG	ARG	LEU	VAL	HIS	ARG	ASP
SEQRES	12	A	297	LEU	ALA	ALA	ARG	ASN	VAL	LEU	VAL	LYS	THR	PRO	GLN	HIS
SEQRES	13	A	297	VAL	LYS	ILE	THR	ASP	PHE	GLY	LEU	ALA	LYS	LEU	LEU	GLY
SEQRES	14	A	297	ALA	GLU	GLU	LYS	GLU	TYR	HIS	ALA	GLU	GLY	GLY	LYS	VAL
SEQRES	15	A	297	PRO	ILE	LYS	TRP	MET	ALA	LEU	GLU	SER	ILE	LEU	HIS	ARG
SEQRES	16	A	297	ILE	TYR	THR	HIS	GLN	SER	ASP	VAL	TRP	SER	TYR	GLY	VAL
SEQRES	17	A	297	THR	VAL	TRP	GLU	LEU	MET	THR	PHE	GLY	SER	LYS	PRO	TYR
SEQRES	18	A	297	ASP	GLY	ILE	PRO	ALA	SER	GLU	ILE	SER	SER	ILE	LEU	GLU
SEQRES	19	A	297	LYS	GLY	GLU	ARG	LEU	PRO	GLN	PRO	PRO	ILE	CYS	THR	ILE
SEQRES	20	A	297	ASP	VAL	TYR	MET	ILE	MET	VAL	LYS	CYS	TRP	MET	ILE	ASP
SEQRES	21	A	297	ALA	ASP	SER	ARG	PRO	LYS	PHE	ARG	GLU	LEU	ILE	ILE	GLU
SEQRES	22	A	297	PHE	SER	LYS	MET	ALA	ARG	ASP	PRO	GLN	ARG	TYR	LEU	VAL
SEQRES	23	A	297	ILE	GLN	GLY	GLU	GLY	HIS	HIS	HIS	HIS	HIS	HIS	HIS	

**FIG 2**

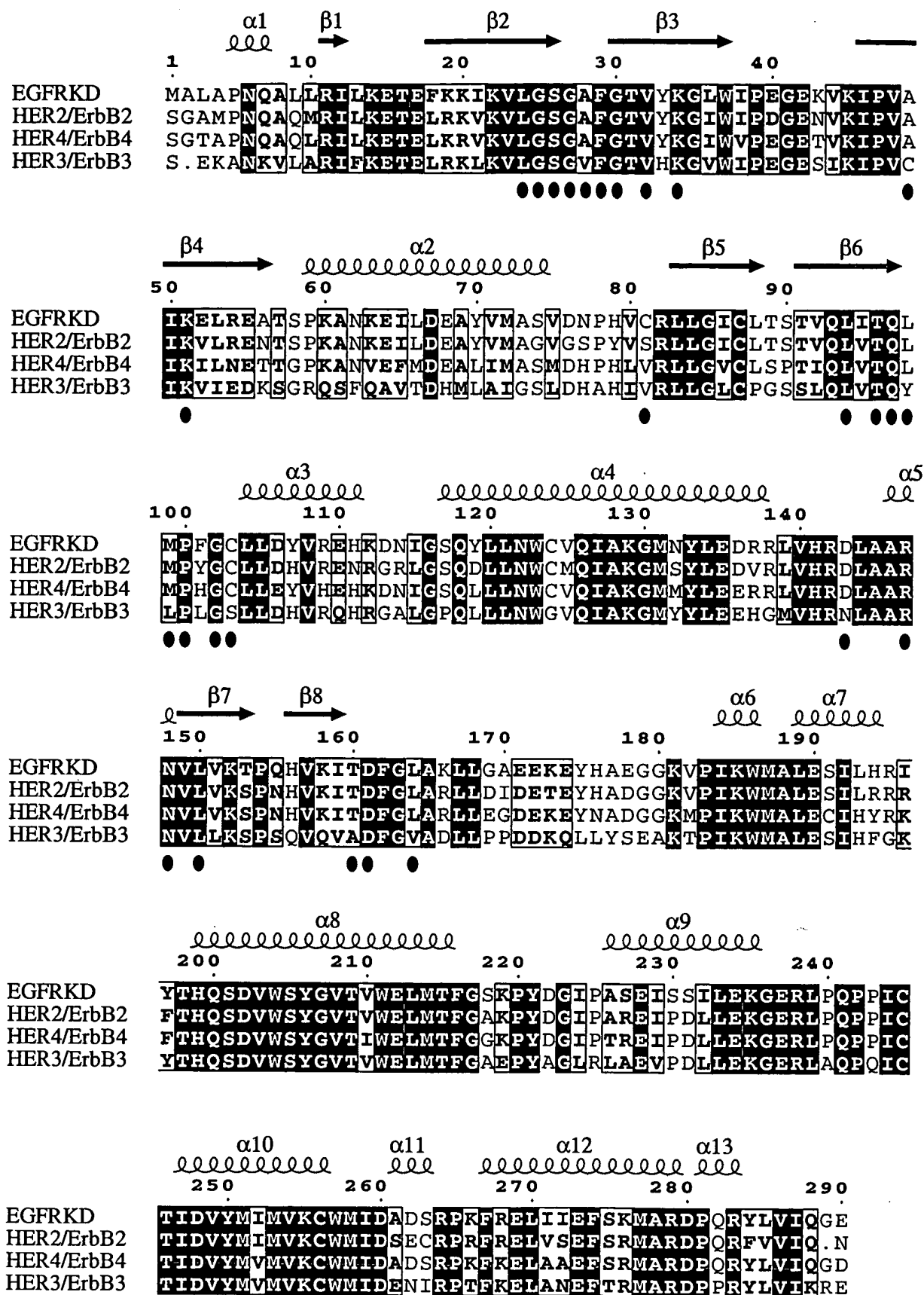


FIG. 3



CRYST1 56.926 64.948 80.249 90.00 109.01 90.00 P 1 21 1 2

	Atom		Residue	#	X	Y	Z	OCC	B	Atom
	Type									
ATOM	1	N	LEU A	3	25.444	-20.332	25.811	1.00	25.27	N
ATOM	2	CA	LEU A	3	26.210	-21.613	25.815	1.00	25.21	C
ATOM	3	C	LEU A	3	27.671	-21.412	25.400	1.00	25.54	C
ATOM	4	O	LEU A	3	28.579	-21.944	26.039	1.00	25.74	O
ATOM	5	CB	LEU A	3	25.539	-22.635	24.887	1.00	24.95	C
ATOM	6	CG	LEU A	3	24.252	-23.372	25.286	1.00	24.41	C
ATOM	7	CD1	LEU A	3	24.197	-23.711	26.774	1.00	24.32	C
ATOM	8	CD2	LEU A	3	23.016	-22.583	24.867	1.00	24.49	C
ATOM	9	N	ALA A	4	27.881	-20.636	24.337	1.00	25.85	N
ATOM	10	CA	ALA A	4	29.199	-20.461	23.725	1.00	26.19	C
ATOM	11	C	ALA A	4	29.629	-18.986	23.691	1.00	26.48	C
ATOM	12	O	ALA A	4	28.778	-18.099	23.594	1.00	26.73	O
ATOM	13	CB	ALA A	4	29.194	-21.050	22.318	1.00	26.08	C
ATOM	14	N	PRO A	5	30.938	-18.723	23.767	1.00	26.64	N
ATOM	15	CA	PRO A	5	31.456	-17.346	23.793	1.00	26.76	C
ATOM	16	C	PRO A	5	31.029	-16.465	22.616	1.00	26.86	C
ATOM	17	O	PRO A	5	30.950	-15.247	22.792	1.00	26.93	O
ATOM	18	CB	PRO A	5	32.980	-17.536	23.797	1.00	26.73	C
ATOM	19	CG	PRO A	5	33.207	-18.941	23.383	1.00	26.64	C
ATOM	20	CD	PRO A	5	32.025	-19.714	23.861	1.00	26.62	C
ATOM	21	N	ASN A	6	30.754	-17.058	21.455	1.00	27.05	N
ATOM	22	CA	ASN A	6	30.275	-16.302	20.292	1.00	27.18	C
ATOM	23	C	ASN A	6	28.961	-15.555	20.557	1.00	27.20	C
ATOM	24	O	ASN A	6	28.587	-14.645	19.814	1.00	27.41	O
ATOM	25	CB	ASN A	6	30.147	-17.208	19.059	1.00	27.19	C
ATOM	26	CG	ASN A	6	29.133	-18.333	19.247	1.00	27.51	C
ATOM	27	OD1	ASN A	6	28.433	-18.402	20.258	1.00	28.16	O
ATOM	28	ND2	ASN A	6	29.059	-19.227	18.265	1.00	27.50	N
ATOM	29	N	GLN A	7	28.273	-15.953	21.623	1.00	27.18	N
ATOM	30	CA	GLN A	7	27.037	-15.310	22.054	1.00	27.07	C
ATOM	31	C	GLN A	7	27.309	-14.181	23.056	1.00	26.85	C
ATOM	32	O	GLN A	7	26.374	-13.599	23.612	1.00	26.95	O
ATOM	33	CB	GLN A	7	26.085	-16.349	22.661	1.00	27.19	C
ATOM	34	CG	GLN A	7	25.571	-17.396	21.672	1.00	27.57	C
ATOM	35	CD	GLN A	7	24.951	-18.601	22.361	1.00	28.18	C
ATOM	36	OE1	GLN A	7	25.663	-19.453	22.899	1.00	28.63	O
ATOM	37	NE2	GLN A	7	23.626	-18.673	22.349	1.00	27.92	N
ATOM	38	N	ALA A	8	28.589	-13.872	23.274	1.00	26.58	N
ATOM	39	CA	ALA A	8	28.996	-12.883	24.272	1.00	26.34	C
ATOM	40	C	ALA A	8	30.309	-12.153	23.943	1.00	26.18	C
ATOM	41	O	ALA A	8	30.800	-11.358	24.750	1.00	26.16	O
ATOM	42	CB	ALA A	8	29.082	-13.538	25.652	1.00	26.33	C
ATOM	43	N	LEU A	9	30.870	-12.414	22.765	1.00	26.04	N
ATOM	44	CA	LEU A	9	32.142	-11.805	22.372	1.00	25.90	C
ATOM	45	C	LEU A	9	31.969	-10.684	21.351	1.00	25.81	C
ATOM	46	O	LEU A	9	31.094	-10.743	20.486	1.00	25.85	O
ATOM	47	CB	LEU A	9	33.107	-12.865	21.832	1.00	25.92	C
ATOM	48	N	LEU A	10	32.819	-9.667	21.462	1.00	25.74	N
ATOM	49	CA	LEU A	10	32.791	-8.520	20.562	1.00	25.61	C
ATOM	50	C	LEU A	10	33.690	-8.744	19.354	1.00	25.72	C
ATOM	51	O	LEU A	10	34.847	-9.145	19.492	1.00	25.75	O
ATOM	52	CB	LEU A	10	33.211	-7.250	21.308	1.00	25.46	C
ATOM	53	CG	LEU A	10	33.315	-5.936	20.529	1.00	25.17	C
ATOM	54	CD1	LEU A	10	31.940	-5.364	20.214	1.00	24.76	C
ATOM	55	CD2	LEU A	10	34.153	-4.937	21.312	1.00	25.05	C

FIG. 4A

ATOM	56	N	ARG	A	11	33.148	-8.478	18.170	1.00	25.94	N
ATOM	57	CA	ARG	A	11	33.905	-8.617	16.936	1.00	26.20	C
ATOM	58	C	ARG	A	11	34.537	-7.292	16.521	1.00	26.33	C
ATOM	59	O	ARG	A	11	33.848	-6.284	16.358	1.00	26.36	O
ATOM	60	CB	ARG	A	11	33.018	-9.173	15.821	1.00	26.25	C
ATOM	61	CG	ARG	A	11	33.630	-10.347	15.080	1.00	26.65	C
ATOM	62	CD	ARG	A	11	33.347	-11.708	15.706	1.00	26.95	C
ATOM	63	NE	ARG	A	11	32.289	-12.422	14.993	1.00	27.57	N
ATOM	64	CZ	ARG	A	11	32.464	-13.129	13.879	1.00	27.33	C
ATOM	65	NH1	ARG	A	11	31.426	-13.734	13.317	1.00	27.70	N
ATOM	66	NH2	ARG	A	11	33.665	-13.235	13.323	1.00	26.62	N
ATOM	67	N	ILE	A	12	35.859	-7.301	16.378	1.00	26.56	N
ATOM	68	CA	ILE	A	12	36.595	-6.136	15.905	1.00	26.77	C
ATOM	69	C	ILE	A	12	36.489	-6.113	14.391	1.00	26.96	C
ATOM	70	O	ILE	A	12	36.950	-7.038	13.718	1.00	27.20	O
ATOM	71	N	LEU	A	13	35.873	-5.063	13.860	1.00	27.07	N
ATOM	72	CA	LEU	A	13	35.599	-4.989	12.431	1.00	27.24	C
ATOM	73	C	LEU	A	13	36.569	-4.077	11.689	1.00	27.51	C
ATOM	74	O	LEU	A	13	36.891	-2.980	12.157	1.00	27.50	O
ATOM	75	CB	LEU	A	13	34.152	-4.543	12.183	1.00	27.16	C
ATOM	76	CG	LEU	A	13	32.963	-5.509	12.340	1.00	27.13	C
ATOM	77	CD1	LEU	A	13	32.136	-5.548	11.062	1.00	26.77	C
ATOM	78	CD2	LEU	A	13	33.355	-6.927	12.757	1.00	27.33	C
ATOM	79	N	LYS	A	14	37.042	-4.552	10.538	1.00	27.82	N
ATOM	80	CA	LYS	A	14	37.758	-3.715	9.578	1.00	28.13	C
ATOM	81	C	LYS	A	14	36.718	-3.087	8.666	1.00	28.13	C
ATOM	82	O	LYS	A	14	35.707	-3.715	8.352	1.00	28.15	O
ATOM	83	CB	LYS	A	14	38.739	-4.542	8.745	1.00	28.25	C
ATOM	84	CG	LYS	A	14	39.971	-5.023	9.497	1.00	28.61	C
ATOM	85	CD	LYS	A	14	40.331	-6.444	9.089	1.00	29.24	C
ATOM	86	CE	LYS	A	14	41.812	-6.577	8.759	1.00	29.63	C
ATOM	87	NZ	LYS	A	14	42.548	-7.356	9.800	1.00	29.62	N
ATOM	88	N	GLU	A	15	36.965	-1.854	8.233	1.00	28.25	N
ATOM	89	CA	GLU	A	15	35.994	-1.128	7.415	1.00	28.46	C
ATOM	90	C	GLU	A	15	35.778	-1.719	6.009	1.00	28.36	C
ATOM	91	O	GLU	A	15	34.960	-1.212	5.239	1.00	28.40	O
ATOM	92	CB	GLU	A	15	36.304	0.378	7.383	1.00	28.64	C
ATOM	93	CG	GLU	A	15	37.457	0.806	6.489	1.00	29.59	C
ATOM	94	CD	GLU	A	15	37.431	2.296	6.181	1.00	30.53	C
ATOM	95	OE1	GLU	A	15	37.154	3.102	7.100	1.00	30.46	O
ATOM	96	OE2	GLU	A	15	37.688	2.667	5.015	1.00	31.29	O
ATOM	97	N	THR	A	16	36.501	-2.794	5.696	1.00	28.25	N
ATOM	98	CA	THR	A	16	36.305	-3.536	4.449	1.00	28.09	C
ATOM	99	C	THR	A	16	35.501	-4.819	4.680	1.00	27.97	C
ATOM	100	O	THR	A	16	35.098	-5.490	3.725	1.00	27.77	O
ATOM	101	CB	THR	A	16	37.655	-3.871	3.774	1.00	28.10	C
ATOM	102	OG1	THR	A	16	38.469	-4.632	4.675	1.00	28.22	O
ATOM	103	CG2	THR	A	16	38.472	-2.607	3.520	1.00	28.14	C
ATOM	104	N	GLU	A	17	35.273	-5.151	5.949	1.00	27.87	N
ATOM	105	CA	GLU	A	17	34.484	-6.326	6.319	1.00	27.81	C
ATOM	106	C	GLU	A	17	32.975	-6.059	6.306	1.00	27.66	C
ATOM	107	O	GLU	A	17	32.177	-6.995	6.358	1.00	27.72	O
ATOM	108	CB	GLU	A	17	34.919	-6.861	7.687	1.00	27.91	C
ATOM	109	CG	GLU	A	17	36.190	-7.695	7.647	1.00	28.09	C
ATOM	110	CD	GLU	A	17	36.659	-8.119	9.025	1.00	28.50	C
ATOM	111	OE1	GLU	A	17	37.107	-7.246	9.797	1.00	28.53	O
ATOM	112	OE2	GLU	A	17	36.586	-9.328	9.336	1.00	28.89	O
ATOM	113	N	PHE	A	18	32.589	-4.786	6.236	1.00	27.51	N
ATOM	114	CA	PHE	A	18	31.176	-4.407	6.185	1.00	27.26	C
ATOM	115	C	PHE	A	18	30.905	-3.280	5.191	1.00	27.26	C

FIG. 4B

ATOM	116	O	PHE	A	18	31.786	-2.468	4.898	1.00	27.35	O
ATOM	117	CB	PHE	A	18	30.652	-4.039	7.583	1.00	27.13	C
ATOM	118	CG	PHE	A	18	31.166	-2.724	8.107	1.00	26.95	C
ATOM	119	CD1	PHE	A	18	30.396	-1.569	8.003	1.00	26.76	C
ATOM	120	CE1	PHE	A	18	30.866	-0.350	8.488	1.00	26.83	C
ATOM	121	CZ	PHE	A	18	32.118	-0.280	9.090	1.00	26.83	C
ATOM	122	CE2	PHE	A	18	32.893	-1.429	9.203	1.00	26.91	C
ATOM	123	CD2	PHE	A	18	32.415	-2.642	8.717	1.00	26.86	C
ATOM	124	N	LYS	A	19	29.673	-3.241	4.686	1.00	27.10	N
ATOM	125	CA	LYS	A	19	29.239	-2.217	3.744	1.00	26.92	C
ATOM	126	C	LYS	A	19	27.835	-1.714	4.089	1.00	26.82	C
ATOM	127	O	LYS	A	19	26.937	-2.511	4.380	1.00	26.80	O
ATOM	128	CB	LYS	A	19	29.271	-2.769	2.316	1.00	26.91	C
ATOM	129	CG	LYS	A	19	29.342	-1.706	1.232	1.00	27.23	C
ATOM	130	N	LYS	A	20	27.662	-0.393	4.059	1.00	26.60	N
ATOM	131	CA	LYS	A	20	26.364	0.240	4.291	1.00	26.42	C
ATOM	132	C	LYS	A	20	25.620	0.389	2.969	1.00	26.34	C
ATOM	133	O	LYS	A	20	26.113	1.040	2.045	1.00	26.28	O
ATOM	134	CB	LYS	A	20	26.533	1.616	4.947	1.00	26.39	C
ATOM	135	CG	LYS	A	20	27.216	1.596	6.311	1.00	26.56	C
ATOM	136	CD	LYS	A	20	27.464	3.005	6.844	1.00	26.29	C
ATOM	137	CE	LYS	A	20	28.684	3.660	6.206	1.00	26.38	C
ATOM	138	NZ	LYS	A	20	29.963	3.012	6.612	1.00	26.50	N
ATOM	139	N	ILE	A	21	24.436	-0.215	2.881	1.00	26.31	N
ATOM	140	CA	ILE	A	21	23.650	-0.180	1.649	1.00	26.28	C
ATOM	141	C	ILE	A	21	22.658	0.987	1.624	1.00	26.44	C
ATOM	142	O	ILE	A	21	22.652	1.763	0.673	1.00	26.65	O
ATOM	143	CB	ILE	A	21	22.970	-1.552	1.368	1.00	26.22	C
ATOM	144	CG1	ILE	A	21	24.001	-2.556	0.857	1.00	26.16	C
ATOM	145	CD1	ILE	A	21	24.390	-3.591	1.868	1.00	26.80	C
ATOM	146	CG2	ILE	A	21	21.860	-1.428	0.332	1.00	26.00	C
ATOM	147	N	LYS	A	22	21.832	1.116	2.661	1.00	26.52	N
ATOM	148	CA	LYS	A	22	20.870	2.219	2.724	1.00	26.71	C
ATOM	149	C	LYS	A	22	20.505	2.636	4.149	1.00	26.80	C
ATOM	150	O	LYS	A	22	20.413	1.801	5.051	1.00	26.76	O
ATOM	151	CB	LYS	A	22	19.607	1.910	1.906	1.00	26.76	C
ATOM	152	CG	LYS	A	22	18.932	0.587	2.232	1.00	27.25	C
ATOM	153	CD	LYS	A	22	17.460	0.785	2.544	1.00	27.75	C
ATOM	154	CE	LYS	A	22	16.585	0.496	1.331	1.00	27.67	C
ATOM	155	NZ	LYS	A	22	16.435	1.690	0.455	1.00	27.22	N
ATOM	156	N	VAL	A	23	20.298	3.939	4.327	1.00	26.71	N
ATOM	157	CA	VAL	A	23	19.968	4.522	5.625	1.00	26.86	C
ATOM	158	C	VAL	A	23	18.538	4.178	6.056	1.00	26.96	C
ATOM	159	O	VAL	A	23	17.597	4.294	5.269	1.00	27.12	O
ATOM	160	CB	VAL	A	23	20.220	6.073	5.640	1.00	26.92	C
ATOM	161	CG1	VAL	A	23	19.866	6.713	4.304	1.00	27.07	C
ATOM	162	CG2	VAL	A	23	19.469	6.764	6.774	1.00	26.77	C
ATOM	163	N	LEU	A	24	18.401	3.732	7.304	1.00	27.04	N
ATOM	164	CA	LEU	A	24	17.104	3.474	7.924	1.00	27.04	C
ATOM	165	C	LEU	A	24	16.553	4.752	8.548	1.00	27.12	C
ATOM	166	O	LEU	A	24	15.349	5.011	8.506	1.00	27.14	O
ATOM	167	CB	LEU	A	24	17.244	2.415	9.020	1.00	27.15	C
ATOM	168	CG	LEU	A	24	16.966	0.944	8.719	1.00	27.16	C
ATOM	169	CD1	LEU	A	24	17.690	0.080	9.737	1.00	27.29	C
ATOM	170	CD2	LEU	A	24	15.474	0.649	8.743	1.00	27.56	C
ATOM	171	N	GLY	A	25	17.449	5.539	9.139	1.00	27.10	N
ATOM	172	CA	GLY	A	25	17.078	6.762	9.821	1.00	27.12	C
ATOM	173	C	GLY	A	25	18.140	7.230	10.799	1.00	27.13	C
ATOM	174	O	GLY	A	25	19.211	6.632	10.911	1.00	27.18	O
ATOM	175	N	SER	A	26	17.831	8.309	11.508	1.00	27.13	N

FIG. 4C

ATOM	176	CA	SER	A	26	18.771	8.926	12.432	1.00	27.27	C
ATOM	177	C	SER	A	26	18.074	9.331	13.726	1.00	27.18	C
ATOM	178	O	SER	A	26	16.884	9.660	13.726	1.00	27.29	O
ATOM	179	CB	SER	A	26	19.442	10.139	11.778	1.00	27.33	C
ATOM	180	OG	SER	A	26	18.724	11.335	12.040	1.00	27.76	O
ATOM	181	N	GLY	A	27	18.825	9.303	14.823	1.00	26.97	N
ATOM	182	CA	GLY	A	27	18.303	9.683	16.123	1.00	26.91	C
ATOM	183	C	GLY	A	27	19.148	10.749	16.785	1.00	26.84	C
ATOM	184	O	GLY	A	27	19.693	11.626	16.112	1.00	26.96	O
ATOM	185	N	ALA	A	28	19.260	10.663	18.108	1.00	26.71	N
ATOM	186	CA	ALA	A	28	19.994	11.652	18.895	1.00	26.48	C
ATOM	187	C	ALA	A	28	21.434	11.224	19.191	1.00	26.40	C
ATOM	188	O	ALA	A	28	22.094	11.805	20.054	1.00	26.77	O
ATOM	189	CB	ALA	A	28	19.247	11.952	20.186	1.00	26.32	C
ATOM	190	N	PHE	A	29	21.917	10.205	18.484	1.00	25.95	N
ATOM	191	CA	PHE	A	29	23.289	9.735	18.664	1.00	25.62	C
ATOM	192	C	PHE	A	29	24.001	9.495	17.334	1.00	25.26	C
ATOM	193	O	PHE	A	29	25.229	9.555	17.266	1.00	25.24	O
ATOM	194	CB	PHE	A	29	23.329	8.472	19.531	1.00	25.74	C
ATOM	195	CG	PHE	A	29	22.739	8.656	20.907	1.00	26.20	C
ATOM	196	CD1	PHE	A	29	21.499	8.106	21.225	1.00	26.43	C
ATOM	197	CE1	PHE	A	29	20.947	8.275	22.499	1.00	26.45	C
ATOM	198	CZ	PHE	A	29	21.638	8.999	23.466	1.00	26.14	C
ATOM	199	CE2	PHE	A	29	22.875	9.553	23.159	1.00	26.30	C
ATOM	200	CD2	PHE	A	29	23.421	9.378	21.885	1.00	26.38	C
ATOM	201	N	GLY	A	30	23.231	9.231	16.281	1.00	24.84	N
ATOM	202	CA	GLY	A	30	23.798	8.993	14.967	1.00	24.15	C
ATOM	203	C	GLY	A	30	22.830	8.427	13.948	1.00	23.71	C
ATOM	204	O	GLY	A	30	21.634	8.305	14.209	1.00	23.87	O
ATOM	205	N	THR	A	31	23.364	8.086	12.778	1.00	23.20	N
ATOM	206	CA	THR	A	31	22.581	7.536	11.679	1.00	22.50	C
ATOM	207	C	THR	A	31	22.704	6.013	11.640	1.00	22.16	C
ATOM	208	O	THR	A	31	23.792	5.463	11.821	1.00	21.56	O
ATOM	209	CB	THR	A	31	23.042	8.159	10.339	1.00	22.68	C
ATOM	210	OG1	THR	A	31	22.930	9.587	10.412	1.00	22.50	O
ATOM	211	CG2	THR	A	31	22.096	7.792	9.200	1.00	22.19	C
ATOM	212	N	VAL	A	32	21.573	5.346	11.414	1.00	21.96	N
ATOM	213	CA	VAL	A	32	21.526	3.890	11.300	1.00	21.83	C
ATOM	214	C	VAL	A	32	21.336	3.490	9.840	1.00	21.81	C
ATOM	215	O	VAL	A	32	20.497	4.054	9.133	1.00	21.57	O
ATOM	216	CB	VAL	A	32	20.397	3.264	12.168	1.00	21.85	C
ATOM	217	CG1	VAL	A	32	20.461	1.737	12.134	1.00	21.60	C
ATOM	218	CG2	VAL	A	32	20.472	3.763	13.603	1.00	21.69	C
ATOM	219	N	TYR	A	33	22.127	2.512	9.409	1.00	21.94	N
ATOM	220	CA	TYR	A	33	22.095	2.002	8.043	1.00	22.18	C
ATOM	221	C	TYR	A	33	21.762	0.511	8.013	1.00	22.46	C
ATOM	222	O	TYR	A	33	22.098	-0.234	8.941	1.00	22.12	O
ATOM	223	CB	TYR	A	33	23.451	2.223	7.366	1.00	22.08	C
ATOM	224	CG	TYR	A	33	23.885	3.670	7.262	1.00	22.16	C
ATOM	225	CD1	TYR	A	33	24.529	4.308	8.327	1.00	21.73	C
ATOM	226	CE1	TYR	A	33	24.936	5.634	8.230	1.00	22.02	C
ATOM	227	CZ	TYR	A	33	24.703	6.336	7.054	1.00	22.45	C
ATOM	228	OH	TYR	A	33	25.102	7.650	6.948	1.00	22.61	O
ATOM	229	CE2	TYR	A	33	24.071	5.722	5.983	1.00	22.07	C
ATOM	230	CD2	TYR	A	33	23.669	4.397	6.091	1.00	21.88	C
ATOM	231	N	LYS	A	34	21.091	0.091	6.943	1.00	22.96	N
ATOM	232	CA	LYS	A	34	20.920	-1.324	6.630	1.00	23.53	C
ATOM	233	C	LYS	A	34	22.116	-1.756	5.801	1.00	23.91	C
ATOM	234	O	LYS	A	34	22.378	-1.186	4.740	1.00	24.04	O
ATOM	235	CB	LYS	A	34	19.634	-1.552	5.840	1.00	23.47	C

FIG. 4D

ATOM	236	CG	LYS	A	34	18.408	-1.735	6.698	1.00	23.52	C
ATOM	237	CD	LYS	A	34	17.241	-2.250	5.885	1.00	24.01	C
ATOM	238	CE	LYS	A	34	16.228	-1.155	5.595	1.00	24.30	C
ATOM	239	NZ	LYS	A	34	14.931	-1.719	5.123	1.00	24.31	N
ATOM	240	N	GLY	A	35	22.849	-2.752	6.284	1.00	24.57	N
ATOM	241	CA	GLY	A	35	24.090	-3.141	5.639	1.00	25.53	C
ATOM	242	C	GLY	A	35	24.414	-4.618	5.655	1.00	26.05	C
ATOM	243	O	GLY	A	35	23.731	-5.412	6.299	1.00	25.91	O
ATOM	244	N	LEU	A	36	25.468	-4.979	4.926	1.00	26.86	N
ATOM	245	CA	LEU	A	36	25.939	-6.357	4.866	1.00	27.53	C
ATOM	246	C	LEU	A	36	27.246	-6.519	5.623	1.00	27.91	C
ATOM	247	O	LEU	A	36	28.161	-5.706	5.488	1.00	27.81	O
ATOM	248	CB	LEU	A	36	26.125	-6.815	3.417	1.00	27.59	C
ATOM	249	CG	LEU	A	36	24.887	-7.235	2.617	1.00	27.75	C
ATOM	250	CD1	LEU	A	36	25.220	-7.268	1.139	1.00	27.96	C
ATOM	251	CD2	LEU	A	36	24.327	-8.578	3.070	1.00	27.64	C
ATOM	252	N	TRP	A	37	27.316	-7.573	6.426	1.00	28.55	N
ATOM	253	CA	TRP	A	37	28.537	-7.946	7.120	1.00	29.32	C
ATOM	254	C	TRP	A	37	29.161	-9.136	6.393	1.00	29.56	C
ATOM	255	O	TRP	A	37	28.544	-10.198	6.271	1.00	29.63	O
ATOM	256	CB	TRP	A	37	28.235	-8.282	8.588	1.00	29.55	C
ATOM	257	CG	TRP	A	37	29.439	-8.624	9.439	1.00	30.21	C
ATOM	258	CD1	TRP	A	37	30.760	-8.455	9.117	1.00	30.54	C
ATOM	259	NE1	TRP	A	37	31.560	-8.884	10.150	1.00	30.79	N
ATOM	260	CE2	TRP	A	37	30.767	-9.337	11.171	1.00	30.90	C
ATOM	261	CD2	TRP	A	37	29.423	-9.187	10.758	1.00	30.80	C
ATOM	262	CE3	TRP	A	37	28.404	-9.586	11.639	1.00	30.90	C
ATOM	263	CZ3	TRP	A	37	28.755	-10.112	12.880	1.00	30.91	C
ATOM	264	CH2	TRP	A	37	30.101	-10.247	13.256	1.00	31.12	C
ATOM	265	CZ2	TRP	A	37	31.119	-9.867	12.418	1.00	31.16	C
ATOM	266	N	ILE	A	38	30.377	-8.937	5.894	1.00	29.84	N
ATOM	267	CA	ILE	A	38	31.122	-9.989	5.213	1.00	30.12	C
ATOM	268	C	ILE	A	38	32.495	-10.182	5.866	1.00	30.29	C
ATOM	269	O	ILE	A	38	33.462	-9.502	5.505	1.00	30.21	O
ATOM	270	CB	ILE	A	38	31.262	-9.667	3.708	1.00	30.15	C
ATOM	271	N	PRO	A	39	32.572	-11.092	6.840	1.00	30.44	N
ATOM	272	CA	PRO	A	39	33.837	-11.396	7.520	1.00	30.58	C
ATOM	273	C	PRO	A	39	34.744	-12.276	6.662	1.00	30.72	C
ATOM	274	O	PRO	A	39	35.314	-11.787	5.684	1.00	30.85	O
ATOM	275	CB	PRO	A	39	33.391	-12.163	8.774	1.00	30.57	C
ATOM	276	CG	PRO	A	39	31.891	-12.069	8.798	1.00	30.59	C
ATOM	277	CD	PRO	A	39	31.459	-11.893	7.379	1.00	30.54	C
ATOM	278	N	LYS	A	43	33.389	-16.832	3.414	1.00	34.01	N
ATOM	279	CA	LYS	A	43	32.664	-16.229	2.301	1.00	33.97	C
ATOM	280	C	LYS	A	43	31.153	-16.250	2.550	1.00	33.90	C
ATOM	281	O	LYS	A	43	30.432	-17.097	2.012	1.00	34.06	O
ATOM	282	CB	LYS	A	43	33.011	-16.939	0.988	1.00	33.94	C
ATOM	283	N	VAL	A	44	30.688	-15.314	3.376	1.00	33.72	N
ATOM	284	CA	VAL	A	44	29.269	-15.191	3.715	1.00	33.43	C
ATOM	285	C	VAL	A	44	28.879	-13.723	3.941	1.00	33.19	C
ATOM	286	O	VAL	A	44	29.570	-12.988	4.653	1.00	33.45	O
ATOM	287	CB	VAL	A	44	28.886	-16.089	4.938	1.00	33.47	C
ATOM	288	CG1	VAL	A	44	29.561	-15.613	6.227	1.00	33.41	C
ATOM	289	CG2	VAL	A	44	27.373	-16.183	5.108	1.00	33.62	C
ATOM	290	N	LYS	A	45	27.781	-13.304	3.315	1.00	32.62	N
ATOM	291	CA	LYS	A	45	27.285	-11.935	3.448	1.00	31.95	C
ATOM	292	C	LYS	A	45	25.982	-11.900	4.248	1.00	31.55	C
ATOM	293	O	LYS	A	45	24.954	-12.413	3.800	1.00	31.42	O
ATOM	294	CB	LYS	A	45	27.093	-11.299	2.069	1.00	32.12	C
ATOM	295	CG	LYS	A	45	28.393	-10.981	1.338	1.00	31.98	C

FIG. 4E

ATOM	296	N	ILE	A	46	26.038	-11.295	5.433	1.00	31.01	N
ATOM	297	CA	ILE	A	46	24.899	-11.261	6.353	1.00	30.53	C
ATOM	298	C	ILE	A	46	24.293	-9.856	6.462	1.00	30.18	C
ATOM	299	O	ILE	A	46	25.002	-8.899	6.787	1.00	30.09	O
ATOM	300	CB	ILE	A	46	25.307	-11.778	7.765	1.00	30.44	C
ATOM	301	CG1	ILE	A	46	25.978	-13.152	7.679	1.00	30.56	C
ATOM	302	CD1	ILE	A	46	27.075	-13.372	8.709	1.00	30.37	C
ATOM	303	CG2	ILE	A	46	24.097	-11.845	8.693	1.00	30.32	C
ATOM	304	N	PRO	A	47	22.988	-9.734	6.194	1.00	29.71	N
ATOM	305	CA	PRO	A	47	22.262	-8.483	6.448	1.00	29.17	C
ATOM	306	C	PRO	A	47	22.389	-8.085	7.915	1.00	28.54	C
ATOM	307	O	PRO	A	47	22.234	-8.925	8.808	1.00	28.40	O
ATOM	308	CB	PRO	A	47	20.812	-8.840	6.108	1.00	29.22	C
ATOM	309	CG	PRO	A	47	20.923	-9.976	5.157	1.00	29.60	C
ATOM	310	CD	PRO	A	47	22.110	-10.771	5.620	1.00	29.70	C
ATOM	311	N	VAL	A	48	22.685	-6.812	8.150	1.00	27.79	N
ATOM	312	CA	VAL	A	48	23.035	-6.334	9.481	1.00	26.99	C
ATOM	313	C	VAL	A	48	22.648	-4.863	9.666	1.00	26.58	C
ATOM	314	O	VAL	A	48	22.428	-4.143	8.688	1.00	26.41	O
ATOM	315	CB	VAL	A	48	24.551	-6.597	9.769	1.00	26.88	C
ATOM	316	CG1	VAL	A	48	25.412	-5.349	9.556	1.00	26.52	C
ATOM	317	CG2	VAL	A	48	24.746	-7.193	11.149	1.00	26.78	C
ATOM	318	N	ALA	A	49	22.538	-4.436	10.921	1.00	26.08	N
ATOM	319	CA	ALA	A	49	22.311	-3.031	11.243	1.00	25.76	C
ATOM	320	C	ALA	A	49	23.628	-2.351	11.620	1.00	25.45	C
ATOM	321	O	ALA	A	49	24.440	-2.917	12.352	1.00	25.30	O
ATOM	322	CB	ALA	A	49	21.289	-2.896	12.365	1.00	25.64	C
ATOM	323	N	ILE	A	50	23.839	-1.145	11.100	1.00	25.22	N
ATOM	324	CA	ILE	A	50	25.047	-0.375	11.388	1.00	24.92	C
ATOM	325	C	ILE	A	50	24.669	1.022	11.858	1.00	24.98	C
ATOM	326	O	ILE	A	50	23.987	1.754	11.142	1.00	24.99	O
ATOM	327	CB	ILE	A	50	25.969	-0.292	10.143	1.00	24.84	C
ATOM	328	CG1	ILE	A	50	26.370	-1.690	9.663	1.00	24.62	C
ATOM	329	CD1	ILE	A	50	26.345	-1.847	8.169	1.00	24.45	C
ATOM	330	CG2	ILE	A	50	27.212	0.548	10.440	1.00	24.57	C
ATOM	331	N	LYS	A	51	25.104	1.384	13.064	1.00	24.96	N
ATOM	332	CA	LYS	A	51	24.872	2.727	13.585	1.00	24.88	C
ATOM	333	C	LYS	A	51	26.168	3.527	13.667	1.00	25.02	C
ATOM	334	O	LYS	A	51	27.059	3.209	14.459	1.00	24.91	O
ATOM	335	CB	LYS	A	51	24.177	2.683	14.948	1.00	24.81	C
ATOM	336	CG	LYS	A	51	23.684	4.048	15.428	1.00	24.46	C
ATOM	337	CD	LYS	A	51	23.423	4.058	16.918	1.00	23.98	C
ATOM	338	CE	LYS	A	51	22.136	4.793	17.240	1.00	24.44	C
ATOM	339	NZ	LYS	A	51	20.944	3.912	17.088	1.00	24.60	N
ATOM	340	N	GLU	A	52	26.265	4.563	12.840	1.00	25.22	N
ATOM	341	CA	GLU	A	52	27.416	5.457	12.870	1.00	25.49	C
ATOM	342	C	GLU	A	52	27.112	6.680	13.720	1.00	25.56	C
ATOM	343	O	GLU	A	52	26.217	7.459	13.397	1.00	25.56	O
ATOM	344	CB	GLU	A	52	27.836	5.869	11.458	1.00	25.46	C
ATOM	345	CG	GLU	A	52	29.131	6.665	11.419	1.00	25.64	C
ATOM	346	CD	GLU	A	52	29.686	6.820	10.021	1.00	26.06	C
ATOM	347	OE1	GLU	A	52	28.934	7.251	9.119	1.00	26.33	O
ATOM	348	OE2	GLU	A	52	30.881	6.514	9.826	1.00	26.57	O
ATOM	349	N	LEU	A	53	27.865	6.835	14.806	1.00	25.93	N
ATOM	350	CA	LEU	A	53	27.695	7.960	15.722	1.00	26.28	C
ATOM	351	C	LEU	A	53	28.093	9.273	15.054	1.00	26.67	C
ATOM	352	O	LEU	A	53	28.993	9.298	14.207	1.00	26.73	O
ATOM	353	CB	LEU	A	53	28.493	7.739	17.013	1.00	26.26	C
ATOM	354	CG	LEU	A	53	28.203	6.499	17.874	1.00	25.99	C
ATOM	355	CD1	LEU	A	53	29.026	6.547	19.152	1.00	25.76	C

FIG. 4F

ATOM	356	CD2	LEU	A	53	26.717	6.334	18.201	1.00	25.22	C
ATOM	357	N	ARG	A	54	27.416	10.354	15.440	1.00	26.99	N
ATOM	358	CA	ARG	A	54	27.547	11.648	14.762	1.00	27.40	C
ATOM	359	C	ARG	A	54	28.922	12.298	14.910	1.00	27.37	C
ATOM	360	O	ARG	A	54	29.485	12.793	13.933	1.00	27.33	O
ATOM	361	CB	ARG	A	54	26.439	12.619	15.195	1.00	27.61	C
ATOM	362	CG	ARG	A	54	26.112	12.602	16.682	1.00	28.23	C
ATOM	363	CD	ARG	A	54	25.970	13.980	17.297	1.00	29.16	C
ATOM	364	NE	ARG	A	54	24.622	14.221	17.806	1.00	29.84	N
ATOM	365	CZ	ARG	A	54	24.212	13.915	19.034	1.00	30.13	C
ATOM	366	NH1	ARG	A	54	25.040	13.343	19.902	1.00	29.81	N
ATOM	367	NH2	ARG	A	54	22.965	14.183	19.398	1.00	30.10	N
ATOM	368	N	GLU	A	55	29.458	12.293	16.126	1.00	27.50	N
ATOM	369	CA	GLU	A	55	30.733	12.949	16.401	1.00	27.75	C
ATOM	370	C	GLU	A	55	31.941	12.082	16.047	1.00	27.52	C
ATOM	371	O	GLU	A	55	31.885	10.855	16.133	1.00	27.53	O
ATOM	372	CB	GLU	A	55	30.804	13.391	17.864	1.00	27.86	C
ATOM	373	CG	GLU	A	55	31.440	14.758	18.062	1.00	28.71	C
ATOM	374	CD	GLU	A	55	30.638	15.876	17.423	1.00	29.44	C
ATOM	375	OE1	GLU	A	55	31.133	16.472	16.444	1.00	29.52	O
ATOM	376	OE2	GLU	A	55	29.511	16.153	17.894	1.00	29.93	O
ATOM	377	N	ALA	A	56	33.025	12.736	15.639	1.00	27.39	N
ATOM	378	CA	ALA	A	56	34.281	12.056	15.341	1.00	27.18	C
ATOM	379	C	ALA	A	56	35.075	11.871	16.625	1.00	27.07	C
ATOM	380	O	ALA	A	56	35.031	12.723	17.516	1.00	27.11	O
ATOM	381	CB	ALA	A	56	35.083	12.844	14.327	1.00	27.15	C
ATOM	382	N	THR	A	57	35.801	10.760	16.714	1.00	26.90	N
ATOM	383	CA	THR	A	57	36.483	10.379	17.953	1.00	26.74	C
ATOM	384	C	THR	A	57	37.999	10.255	17.799	1.00	26.58	C
ATOM	385	O	THR	A	57	38.504	9.988	16.708	1.00	26.61	O
ATOM	386	CB	THR	A	57	35.915	9.050	18.487	1.00	26.65	C
ATOM	387	OG1	THR	A	57	35.978	8.058	17.455	1.00	26.93	O
ATOM	388	CG2	THR	A	57	34.423	9.166	18.783	1.00	26.44	C
ATOM	389	N	SER	A	58	38.710	10.449	18.908	1.00	26.43	N
ATOM	390	CA	SER	A	58	40.156	10.253	18.965	1.00	26.28	C
ATOM	391	C	SER	A	58	40.470	8.818	19.403	1.00	26.29	C
ATOM	392	O	SER	A	58	39.589	8.133	19.925	1.00	26.21	O
ATOM	393	CB	SER	A	58	40.794	11.269	19.923	1.00	26.26	C
ATOM	394	OG	SER	A	58	40.450	11.006	21.273	1.00	25.83	O
ATOM	395	N	PRO	A	59	41.702	8.353	19.175	1.00	26.34	N
ATOM	396	CA	PRO	A	59	42.135	7.035	19.660	1.00	26.51	C
ATOM	397	C	PRO	A	59	42.071	6.890	21.184	1.00	26.85	C
ATOM	398	O	PRO	A	59	41.934	5.768	21.667	1.00	26.99	O
ATOM	399	CB	PRO	A	59	43.585	6.949	19.184	1.00	26.33	C
ATOM	400	CG	PRO	A	59	43.639	7.861	18.024	1.00	26.20	C
ATOM	401	CD	PRO	A	59	42.770	9.019	18.405	1.00	26.26	C
ATOM	402	N	LYS	A	60	42.170	7.998	21.916	1.00	27.14	N
ATOM	403	CA	LYS	A	60	42.016	7.986	23.369	1.00	27.39	C
ATOM	404	C	LYS	A	60	40.575	7.673	23.763	1.00	27.44	C
ATOM	405	O	LYS	A	60	40.331	6.898	24.692	1.00	27.55	O
ATOM	406	CB	LYS	A	60	42.447	9.325	23.972	1.00	27.46	C
ATOM	407	CG	LYS	A	60	42.583	9.306	25.488	1.00	28.00	C
ATOM	408	CD	LYS	A	60	42.869	10.693	26.034	1.00	28.93	C
ATOM	409	CE	LYS	A	60	43.871	10.640	27.177	1.00	29.23	C
ATOM	410	NZ	LYS	A	60	44.059	11.981	27.803	1.00	29.95	N
ATOM	411	N	ALA	A	61	39.630	8.284	23.052	1.00	27.44	N
ATOM	412	CA	ALA	A	61	38.206	8.077	23.298	1.00	27.57	C
ATOM	413	C	ALA	A	61	37.722	6.740	22.734	1.00	27.64	C
ATOM	414	O	ALA	A	61	36.712	6.202	23.186	1.00	27.63	O
ATOM	415	CB	ALA	A	61	37.398	9.227	22.722	1.00	27.47	C

FIG. 4G

ATOM	416	N	ASN	A	62	38.451	6.215	21.750	1.00	27.74	N
ATOM	417	CA	ASN	A	62	38.147	4.919	21.146	1.00	27.81	C
ATOM	418	C	ASN	A	62	38.422	3.737	22.079	1.00	28.04	C
ATOM	419	O	ASN	A	62	37.747	2.708	21.995	1.00	28.04	O
ATOM	420	CB	ASN	A	62	38.904	4.750	19.825	1.00	27.69	C
ATOM	421	CG	ASN	A	62	38.184	5.397	18.641	1.00	27.43	C
ATOM	422	OD1	ASN	A	62	38.733	5.486	17.546	1.00	27.39	O
ATOM	423	ND2	ASN	A	62	36.953	5.844	18.858	1.00	27.18	N
ATOM	424	N	LYS	A	63	39.409	3.891	22.962	1.00	28.17	N
ATOM	425	CA	LYS	A	63	39.689	2.900	24.003	1.00	28.31	C
ATOM	426	C	LYS	A	63	38.604	2.948	25.069	1.00	28.13	C
ATOM	427	O	LYS	A	63	38.251	1.921	25.652	1.00	28.20	O
ATOM	428	CB	LYS	A	63	41.059	3.133	24.657	1.00	28.53	C
ATOM	429	CG	LYS	A	63	42.145	3.632	23.720	1.00	29.21	C
ATOM	430	CD	LYS	A	63	43.536	3.291	24.232	1.00	30.19	C
ATOM	431	CE	LYS	A	63	44.615	3.990	23.415	1.00	30.62	C
ATOM	432	NZ	LYS	A	63	44.634	3.538	21.990	1.00	31.28	N
ATOM	433	N	GLU	A	64	38.094	4.153	25.319	1.00	27.93	N
ATOM	434	CA	GLU	A	64	37.020	4.381	26.280	1.00	27.83	C
ATOM	435	C	GLU	A	64	35.699	3.799	25.775	1.00	27.57	C
ATOM	436	O	GLU	A	64	34.914	3.256	26.555	1.00	27.65	O
ATOM	437	CB	GLU	A	64	36.866	5.880	26.555	1.00	28.05	C
ATOM	438	CG	GLU	A	64	37.613	6.378	27.784	1.00	28.76	C
ATOM	439	CD	GLU	A	64	38.500	7.575	27.489	1.00	29.57	C
ATOM	440	OE1	GLU	A	64	37.961	8.662	27.184	1.00	29.83	O
ATOM	441	OE2	GLU	A	64	39.740	7.429	27.563	1.00	30.06	O
ATOM	442	N	ILE	A	65	35.468	3.915	24.469	1.00	27.10	N
ATOM	443	CA	ILE	A	65	34.265	3.382	23.833	1.00	26.79	C
ATOM	444	C	ILE	A	65	34.319	1.850	23.722	1.00	26.71	C
ATOM	445	O	ILE	A	65	33.310	1.174	23.944	1.00	26.61	O
ATOM	446	CB	ILE	A	65	34.032	4.066	22.452	1.00	26.69	C
ATOM	447	CG1	ILE	A	65	33.404	5.452	22.646	1.00	26.51	C
ATOM	448	CD1	ILE	A	65	33.810	6.480	21.600	1.00	26.15	C
ATOM	449	CG2	ILE	A	65	33.156	3.208	21.538	1.00	26.44	C
ATOM	450	N	LEU	A	66	35.498	1.316	23.398	1.00	26.55	N
ATOM	451	CA	LEU	A	66	35.705	-0.130	23.275	1.00	26.54	C
ATOM	452	C	LEU	A	66	35.515	-0.865	24.605	1.00	26.56	C
ATOM	453	O	LEU	A	66	34.974	-1.971	24.630	1.00	26.50	O
ATOM	454	CB	LEU	A	66	37.088	-0.437	22.684	1.00	26.51	C
ATOM	455	CG	LEU	A	66	37.414	-1.887	22.299	1.00	26.33	C
ATOM	456	CD1	LEU	A	66	36.859	-2.252	20.931	1.00	26.29	C
ATOM	457	CD2	LEU	A	66	38.914	-2.117	22.338	1.00	26.51	C
ATOM	458	N	ASP	A	67	35.957	-0.241	25.698	1.00	26.48	N
ATOM	459	CA	ASP	A	67	35.749	-0.774	27.044	1.00	26.50	C
ATOM	460	C	ASP	A	67	34.261	-0.928	27.351	1.00	26.28	C
ATOM	461	O	ASP	A	67	33.853	-1.899	27.990	1.00	26.56	O
ATOM	462	CB	ASP	A	67	36.401	0.133	28.093	1.00	26.74	C
ATOM	463	CG	ASP	A	67	37.902	-0.083	28.211	1.00	27.46	C
ATOM	464	OD1	ASP	A	67	38.393	-1.177	27.841	1.00	27.71	O
ATOM	465	OD2	ASP	A	67	38.670	0.793	28.671	1.00	27.91	O
ATOM	466	N	GLU	A	68	33.464	0.034	26.891	1.00	25.78	N
ATOM	467	CA	GLU	A	68	32.012	-0.014	27.029	1.00	25.30	C
ATOM	468	C	GLU	A	68	31.381	-0.976	26.025	1.00	24.91	C
ATOM	469	O	GLU	A	68	30.321	-1.545	26.290	1.00	25.04	O
ATOM	470	CB	GLU	A	68	31.412	1.385	26.860	1.00	25.52	C
ATOM	471	N	ALA	A	69	32.035	-1.151	24.879	1.00	24.34	N
ATOM	472	CA	ALA	A	69	31.558	-2.056	23.835	1.00	23.87	C
ATOM	473	C	ALA	A	69	31.687	-3.522	24.243	1.00	23.69	C
ATOM	474	O	ALA	A	69	30.874	-4.360	23.843	1.00	23.53	O
ATOM	475	CB	ALA	A	69	32.297	-1.801	22.529	1.00	23.87	C

FIG. 4H



ATOM	476	N	TYR	A	70	32.711	-3.825	25.039	1.00	23.46	N
ATOM	477	CA	TYR	A	70	32.927	-5.184	25.529	1.00	23.29	C
ATOM	478	C	TYR	A	70	31.781	-5.661	26.422	1.00	22.94	C
ATOM	479	O	TYR	A	70	31.283	-6.771	26.243	1.00	22.72	O
ATOM	480	CB	TYR	A	70	34.274	-5.303	26.251	1.00	23.45	C
ATOM	481	CG	TYR	A	70	35.452	-5.516	25.322	1.00	23.79	C
ATOM	482	CD1	TYR	A	70	36.552	-4.659	25.354	1.00	24.15	C
ATOM	483	CE1	TYR	A	70	37.640	-4.848	24.505	1.00	24.42	C
ATOM	484	CZ	TYR	A	70	37.633	-5.904	23.609	1.00	24.64	C
ATOM	485	OH	TYR	A	70	38.705	-6.089	22.768	1.00	25.17	O
ATOM	486	CE2	TYR	A	70	36.554	-6.774	23.556	1.00	24.46	C
ATOM	487	CD2	TYR	A	70	35.471	-6.577	24.413	1.00	24.17	C
ATOM	488	N	VAL	A	71	31.361	-4.812	27.361	1.00	22.73	N
ATOM	489	CA	VAL	A	71	30.232	-5.123	28.245	1.00	22.60	C
ATOM	490	C	VAL	A	71	28.891	-5.095	27.498	1.00	22.24	C
ATOM	491	O	VAL	A	71	27.947	-5.789	27.883	1.00	22.18	O
ATOM	492	CB	VAL	A	71	30.209	-4.222	29.526	1.00	22.72	C
ATOM	493	CG1	VAL	A	71	29.394	-2.946	29.316	1.00	23.15	C
ATOM	494	CG2	VAL	A	71	29.677	-4.998	30.720	1.00	22.88	C
ATOM	495	N	MET	A	72	28.830	-4.305	26.428	1.00	21.84	N
ATOM	496	CA	MET	A	72	27.656	-4.231	25.562	1.00	21.50	C
ATOM	497	C	MET	A	72	27.478	-5.515	24.743	1.00	21.21	C
ATOM	498	O	MET	A	72	26.351	-5.948	24.488	1.00	21.23	O
ATOM	499	CB	MET	A	72	27.768	-3.025	24.624	1.00	21.61	C
ATOM	500	CG	MET	A	72	26.904	-1.837	25.019	1.00	21.94	C
ATOM	501	SD	MET	A	72	27.649	-0.233	24.642	1.00	22.75	S
ATOM	502	CE	MET	A	72	27.395	-0.140	22.876	1.00	22.15	C
ATOM	503	N	ALA	A	73	28.595	-6.114	24.337	1.00	20.68	N
ATOM	504	CA	ALA	A	73	28.582	-7.336	23.533	1.00	20.30	C
ATOM	505	C	ALA	A	73	28.360	-8.600	24.367	1.00	20.05	C
ATOM	506	O	ALA	A	73	28.024	-9.658	23.826	1.00	19.98	O
ATOM	507	CB	ALA	A	73	29.868	-7.450	22.740	1.00	20.23	C
ATOM	508	N	SER	A	74	28.552	-8.487	25.678	1.00	19.70	N
ATOM	509	CA	SER	A	74	28.418	-9.625	26.582	1.00	19.65	C
ATOM	510	C	SER	A	74	27.036	-9.683	27.227	1.00	19.63	C
ATOM	511	O	SER	A	74	26.816	-10.444	28.171	1.00	19.59	O
ATOM	512	CB	SER	A	74	29.497	-9.568	27.663	1.00	19.64	C
ATOM	513	OG	SER	A	74	29.360	-8.394	28.444	1.00	19.34	O
ATOM	514	N	VAL	A	75	26.110	-8.875	26.714	1.00	19.56	N
ATOM	515	CA	VAL	A	75	24.753	-8.820	27.247	1.00	19.62	C
ATOM	516	C	VAL	A	75	23.961	-10.040	26.785	1.00	19.63	C
ATOM	517	O	VAL	A	75	23.721	-10.234	25.592	1.00	19.87	O
ATOM	518	CB	VAL	A	75	24.051	-7.484	26.892	1.00	19.56	C
ATOM	519	CG1	VAL	A	75	22.548	-7.609	26.995	1.00	19.64	C
ATOM	520	CG2	VAL	A	75	24.544	-6.376	27.811	1.00	19.28	C
ATOM	521	N	ASP	A	76	23.574	-10.863	27.751	1.00	19.68	N
ATOM	522	CA	ASP	A	76	22.984	-12.165	27.473	1.00	19.85	C
ATOM	523	C	ASP	A	76	21.602	-12.285	28.106	1.00	19.56	C
ATOM	524	O	ASP	A	76	21.469	-12.729	29.249	1.00	19.88	O
ATOM	525	CB	ASP	A	76	23.915	-13.272	27.976	1.00	20.10	C
ATOM	526	CG	ASP	A	76	23.440	-14.658	27.594	1.00	21.13	C
ATOM	527	OD1	ASP	A	76	23.099	-14.875	26.409	1.00	22.00	O
ATOM	528	OD2	ASP	A	76	23.381	-15.597	28.417	1.00	22.09	O
ATOM	529	N	ASN	A	77	20.586	-11.869	27.351	1.00	18.92	N
ATOM	530	CA	ASN	A	77	19.190	-11.898	27.786	1.00	18.24	C
ATOM	531	C	ASN	A	77	18.263	-11.902	26.568	1.00	17.79	C
ATOM	532	O	ASN	A	77	18.519	-11.184	25.602	1.00	17.62	O
ATOM	533	CB	ASN	A	77	18.879	-10.694	28.684	1.00	18.12	C
ATOM	534	CG	ASN	A	77	17.521	-10.798	29.357	1.00	17.98	C
ATOM	535	OD1	ASN	A	77	16.498	-10.402	28.792	1.00	17.52	O

FIG. 4I

ATOM	536	ND2	ASN	A	77	17.504	-11.336	30.570	1.00	17.96	N
ATOM	537	N	PRO	A	78	17.196	-12.701	26.608	1.00	17.55	N
ATOM	538	CA	PRO	A	78	16.241	-12.777	25.490	1.00	17.35	C
ATOM	539	C	PRO	A	78	15.580	-11.444	25.115	1.00	17.03	C
ATOM	540	O	PRO	A	78	15.050	-11.334	24.011	1.00	17.06	O
ATOM	541	CB	PRO	A	78	15.178	-13.759	26.002	1.00	17.38	C
ATOM	542	CG	PRO	A	78	15.868	-14.558	27.055	1.00	17.33	C
ATOM	543	CD	PRO	A	78	16.821	-13.609	27.709	1.00	17.45	C
ATOM	544	N	HIS	A	79	15.615	-10.456	26.007	1.00	16.78	N
ATOM	545	CA	HIS	A	79	14.908	-9.193	25.781	1.00	16.48	C
ATOM	546	C	HIS	A	79	15.818	-7.961	25.750	1.00	16.20	C
ATOM	547	O	HIS	A	79	15.361	-6.833	25.926	1.00	16.03	O
ATOM	548	CB	HIS	A	79	13.769	-9.036	26.794	1.00	16.50	C
ATOM	549	CG	HIS	A	79	12.910	-10.256	26.913	1.00	16.54	C
ATOM	550	ND1	HIS	A	79	12.004	-10.625	25.941	1.00	16.70	N
ATOM	551	CE1	HIS	A	79	11.411	-11.749	26.301	1.00	17.03	C
ATOM	552	NE2	HIS	A	79	11.902	-12.125	27.468	1.00	16.85	N
ATOM	553	CD2	HIS	A	79	12.845	-11.211	27.869	1.00	16.65	C
ATOM	554	N	VAL	A	80	17.108	-8.190	25.522	1.00	16.05	N
ATOM	555	CA	VAL	A	80	18.059	-7.110	25.267	1.00	16.06	C
ATOM	556	C	VAL	A	80	18.901	-7.460	24.038	1.00	16.03	C
ATOM	557	O	VAL	A	80	19.465	-8.554	23.951	1.00	15.94	O
ATOM	558	CB	VAL	A	80	18.991	-6.827	26.480	1.00	15.93	C
ATOM	559	CG1	VAL	A	80	19.733	-5.514	26.289	1.00	16.08	C
ATOM	560	CG2	VAL	A	80	18.213	-6.794	27.793	1.00	16.22	C
ATOM	561	N	CYS	A	81	18.966	-6.537	23.084	1.00	16.00	N
ATOM	562	CA	CYS	A	81	19.822	-6.701	21.915	1.00	15.98	C
ATOM	563	C	CYS	A	81	21.281	-6.567	22.320	1.00	16.16	C
ATOM	564	O	CYS	A	81	21.651	-5.645	23.056	1.00	16.19	O
ATOM	565	CB	CYS	A	81	19.493	-5.657	20.852	1.00	15.86	C
ATOM	566	SG	CYS	A	81	17.783	-5.682	20.280	1.00	16.45	S
ATOM	567	N	ARG	A	82	22.107	-7.496	21.849	1.00	16.32	N
ATOM	568	CA	ARG	A	82	23.538	-7.431	22.103	1.00	16.37	C
ATOM	569	C	ARG	A	82	24.271	-6.785	20.930	1.00	16.42	C
ATOM	570	O	ARG	A	82	23.775	-6.783	19.798	1.00	16.36	O
ATOM	571	CB	ARG	A	82	24.104	-8.819	22.435	1.00	16.43	C
ATOM	572	CG	ARG	A	82	24.212	-9.779	21.262	1.00	17.04	C
ATOM	573	CD	ARG	A	82	24.861	-11.117	21.606	1.00	17.08	C
ATOM	574	NE	ARG	A	82	26.310	-10.999	21.752	1.00	16.95	N
ATOM	575	CZ	ARG	A	82	27.195	-11.441	20.867	1.00	16.88	C
ATOM	576	NH1	ARG	A	82	28.490	-11.283	21.096	1.00	16.92	N
ATOM	577	NH2	ARG	A	82	26.797	-12.040	19.752	1.00	16.92	N
ATOM	578	N	LEU	A	83	25.440	-6.218	21.217	1.00	16.39	N
ATOM	579	CA	LEU	A	83	26.304	-5.659	20.189	1.00	16.29	C
ATOM	580	C	LEU	A	83	27.126	-6.778	19.559	1.00	16.57	C
ATOM	581	O	LEU	A	83	27.807	-7.528	20.262	1.00	16.60	O
ATOM	582	CB	LEU	A	83	27.215	-4.579	20.785	1.00	16.22	C
ATOM	583	CG	LEU	A	83	28.004	-3.684	19.823	1.00	15.85	C
ATOM	584	CD1	LEU	A	83	27.071	-2.807	18.993	1.00	15.73	C
ATOM	585	CD2	LEU	A	83	29.006	-2.838	20.584	1.00	15.19	C
ATOM	586	N	LEU	A	84	27.047	-6.896	18.236	1.00	16.76	N
ATOM	587	CA	LEU	A	84	27.745	-7.958	17.517	1.00	17.01	C
ATOM	588	C	LEU	A	84	29.176	-7.563	17.165	1.00	17.23	C
ATOM	589	O	LEU	A	84	30.108	-8.351	17.349	1.00	17.18	O
ATOM	590	CB	LEU	A	84	26.978	-8.370	16.252	1.00	17.03	C
ATOM	591	CG	LEU	A	84	25.513	-8.812	16.363	1.00	17.02	C
ATOM	592	CD1	LEU	A	84	24.934	-9.026	14.978	1.00	16.99	C
ATOM	593	CD2	LEU	A	84	25.355	-10.076	17.200	1.00	17.18	C
ATOM	594	N	GLY	A	85	29.343	-6.342	16.664	1.00	17.48	N
ATOM	595	CA	GLY	A	85	30.644	-5.859	16.239	1.00	17.82	C

FIG. 4J

ATOM	596	C	GLY	A	85	30.819	-4.359	16.362	1.00	18.07	C
ATOM	597	O	GLY	A	85	29.864	-3.624	16.636	1.00	18.08	O
ATOM	598	N	ILE	A	86	32.054	-3.909	16.155	1.00	18.32	N
ATOM	599	CA	ILE	A	86	32.396	-2.487	16.211	1.00	18.48	C
ATOM	600	C	ILE	A	86	33.548	-2.160	15.257	1.00	18.45	C
ATOM	601	O	ILE	A	86	34.468	-2.962	15.088	1.00	18.58	O
ATOM	602	CB	ILE	A	86	32.715	-2.051	17.680	1.00	18.40	C
ATOM	603	CG1	ILE	A	86	32.659	-0.527	17.827	1.00	18.47	C
ATOM	604	CD1	ILE	A	86	32.054	-0.048	19.136	1.00	18.61	C
ATOM	605	CG2	ILE	A	86	34.048	-2.634	18.172	1.00	18.36	C
ATOM	606	N	CYS	A	87	33.474	-0.991	14.625	1.00	18.51	N
ATOM	607	CA	CYS	A	87	34.562	-0.470	13.803	1.00	18.57	C
ATOM	608	C	CYS	A	87	35.006	0.883	14.344	1.00	18.66	C
ATOM	609	O	CYS	A	87	34.233	1.843	14.338	1.00	18.66	O
ATOM	610	CB	CYS	A	87	34.120	-0.335	12.347	1.00	18.69	C
ATOM	611	SG	CYS	A	87	35.452	0.059	11.185	1.00	19.10	S
ATOM	612	N	LEU	A	88	36.248	0.952	14.819	1.00	18.94	N
ATOM	613	CA	LEU	A	88	36.782	2.182	15.407	1.00	19.23	C
ATOM	614	C	LEU	A	88	37.864	2.823	14.541	1.00	19.32	C
ATOM	615	O	LEU	A	88	39.016	2.384	14.526	1.00	19.42	O
ATOM	616	CB	LEU	A	88	37.297	1.942	16.833	1.00	19.16	C
ATOM	617	CG	LEU	A	88	36.265	1.583	17.911	1.00	19.62	C
ATOM	618	CD1	LEU	A	88	36.939	0.968	19.127	1.00	19.50	C
ATOM	619	CD2	LEU	A	88	35.440	2.788	18.325	1.00	19.54	C
ATOM	620	N	THR	A	89	37.464	3.858	13.811	1.00	19.57	N
ATOM	621	CA	THR	A	89	38.380	4.679	13.028	1.00	19.85	C
ATOM	622	C	THR	A	89	38.328	6.101	13.593	1.00	19.94	C
ATOM	623	O	THR	A	89	38.535	6.296	14.793	1.00	19.99	O
ATOM	624	CB	THR	A	89	38.001	4.646	11.528	1.00	19.89	C
ATOM	625	OG1	THR	A	89	36.581	4.785	11.381	1.00	20.27	O
ATOM	626	CG2	THR	A	89	38.284	3.278	10.929	1.00	19.88	C
ATOM	627	N	SER	A	90	38.049	7.088	12.743	1.00	19.99	N
ATOM	628	CA	SER	A	90	37.726	8.432	13.219	1.00	20.17	C
ATOM	629	C	SER	A	90	36.265	8.464	13.666	1.00	20.14	C
ATOM	630	O	SER	A	90	35.877	9.292	14.491	1.00	20.44	O
ATOM	631	CB	SER	A	90	37.977	9.482	12.139	1.00	20.18	C
ATOM	632	OG	SER	A	90	37.379	9.104	10.911	1.00	20.96	O
ATOM	633	N	THR	A	91	35.468	7.549	13.116	1.00	19.87	N
ATOM	634	CA	THR	A	91	34.072	7.382	13.510	1.00	19.58	C
ATOM	635	C	THR	A	91	33.856	6.044	14.216	1.00	19.51	C
ATOM	636	O	THR	A	91	34.613	5.085	14.010	1.00	19.54	O
ATOM	637	CB	THR	A	91	33.130	7.486	12.288	1.00	19.65	C
ATOM	638	OG1	THR	A	91	33.410	6.422	11.368	1.00	19.55	O
ATOM	639	CG2	THR	A	91	33.412	8.750	11.481	1.00	19.51	C
ATOM	640	N	VAL	A	92	32.821	5.999	15.051	1.00	19.08	N
ATOM	641	CA	VAL	A	92	32.411	4.786	15.748	1.00	18.72	C
ATOM	642	C	VAL	A	92	31.215	4.192	15.015	1.00	18.52	C
ATOM	643	O	VAL	A	92	30.201	4.872	14.811	1.00	18.23	O
ATOM	644	CB	VAL	A	92	32.036	5.079	17.224	1.00	18.93	C
ATOM	645	CG1	VAL	A	92	31.485	3.833	17.917	1.00	18.55	C
ATOM	646	CG2	VAL	A	92	33.236	5.635	17.983	1.00	19.17	C
ATOM	647	N	GLN	A	93	31.340	2.929	14.612	1.00	18.15	N
ATOM	648	CA	GLN	A	93	30.278	2.259	13.866	1.00	18.10	C
ATOM	649	C	GLN	A	93	29.852	0.965	14.555	1.00	17.96	C
ATOM	650	O	GLN	A	93	30.594	-0.019	14.575	1.00	18.09	O
ATOM	651	CB	GLN	A	93	30.698	2.016	12.410	1.00	18.03	C
ATOM	652	CG	GLN	A	93	30.900	3.296	11.608	1.00	17.82	C
ATOM	653	CD	GLN	A	93	31.124	3.043	10.133	1.00	18.23	C
ATOM	654	OE1	GLN	A	93	30.168	2.847	9.383	1.00	18.82	O
ATOM	655	NE2	GLN	A	93	32.383	3.056	9.709	1.00	17.84	N

FIG. 4K

ATOM	656	N	LEU	A	94	28.651	0.988	15.126	1.00	17.85	N
ATOM	657	CA	LEU	A	94	28.125	-0.128	15.906	1.00	17.83	C
ATOM	658	C	LEU	A	94	27.372	-1.111	15.017	1.00	17.85	C
ATOM	659	O	LEU	A	94	26.526	-0.711	14.214	1.00	17.77	O
ATOM	660	CB	LEU	A	94	27.208	0.382	17.023	1.00	17.79	C
ATOM	661	CG	LEU	A	94	27.785	1.411	18.001	1.00	18.19	C
ATOM	662	CD1	LEU	A	94	26.729	2.434	18.385	1.00	18.54	C
ATOM	663	CD2	LEU	A	94	28.355	0.743	19.242	1.00	18.09	C
ATOM	664	N	ILE	A	95	27.683	-2.396	15.167	1.00	17.79	N
ATOM	665	CA	ILE	A	95	27.047	-3.438	14.364	1.00	17.61	C
ATOM	666	C	ILE	A	95	26.143	-4.321	15.223	1.00	17.27	C
ATOM	667	O	ILE	A	95	26.604	-4.997	16.142	1.00	17.09	O
ATOM	668	CB	ILE	A	95	28.112	-4.263	13.577	1.00	17.84	C
ATOM	669	CG1	ILE	A	95	28.764	-3.398	12.495	1.00	17.99	C
ATOM	670	CD1	ILE	A	95	30.161	-2.931	12.843	1.00	19.08	C
ATOM	671	CG2	ILE	A	95	27.493	-5.498	12.926	1.00	17.50	C
ATOM	672	N	THR	A	96	24.849	-4.285	14.915	1.00	17.10	N
ATOM	673	CA	THR	A	96	23.843	-5.096	15.598	1.00	17.04	C
ATOM	674	C	THR	A	96	23.044	-5.906	14.588	1.00	17.16	C
ATOM	675	O	THR	A	96	23.148	-5.685	13.378	1.00	17.06	O
ATOM	676	CB	THR	A	96	22.871	-4.216	16.417	1.00	16.89	C
ATOM	677	OG1	THR	A	96	22.467	-3.090	15.630	1.00	17.74	O
ATOM	678	CG2	THR	A	96	23.563	-3.594	17.627	1.00	16.46	C
ATOM	679	N	GLN	A	97	22.245	-6.841	15.098	1.00	17.15	N
ATOM	680	CA	GLN	A	97	21.337	-7.632	14.282	1.00	17.15	C
ATOM	681	C	GLN	A	97	20.247	-6.754	13.668	1.00	17.13	C
ATOM	682	O	GLN	A	97	19.576	-5.989	14.374	1.00	16.94	O
ATOM	683	CB	GLN	A	97	20.702	-8.732	15.133	1.00	17.29	C
ATOM	684	CG	GLN	A	97	19.940	-9.788	14.351	1.00	18.00	C
ATOM	685	CD	GLN	A	97	19.295	-10.832	15.246	1.00	19.09	C
ATOM	686	OE1	GLN	A	97	19.522	-10.849	16.458	1.00	20.02	O
ATOM	687	NE2	GLN	A	97	18.484	-11.703	14.653	1.00	19.24	N
ATOM	688	N	LEU	A	98	20.090	-6.863	12.351	1.00	17.04	N
ATOM	689	CA	LEU	A	98	19.015	-6.184	11.636	1.00	17.05	C
ATOM	690	C	LEU	A	98	17.678	-6.803	12.019	1.00	17.14	C
ATOM	691	O	LEU	A	98	17.535	-8.027	12.052	1.00	17.33	O
ATOM	692	CB	LEU	A	98	19.233	-6.259	10.119	1.00	16.85	C
ATOM	693	CG	LEU	A	98	18.191	-5.635	9.179	1.00	16.81	C
ATOM	694	CD1	LEU	A	98	17.866	-4.182	9.546	1.00	16.35	C
ATOM	695	CD2	LEU	A	98	18.647	-5.745	7.721	1.00	16.48	C
ATOM	696	N	MET	A	99	16.708	-5.943	12.311	1.00	17.24	N
ATOM	697	CA	MET	A	99	15.401	-6.375	12.784	1.00	17.22	C
ATOM	698	C	MET	A	99	14.316	-5.915	11.819	1.00	17.29	C
ATOM	699	O	MET	A	99	13.894	-4.757	11.862	1.00	17.57	O
ATOM	700	CB	MET	A	99	15.140	-5.840	14.195	1.00	17.43	C
ATOM	701	CG	MET	A	99	16.186	-6.255	15.218	1.00	17.31	C
ATOM	702	SD	MET	A	99	15.708	-7.745	16.087	1.00	17.72	S
ATOM	703	CE	MET	A	99	16.339	-9.005	15.021	1.00	18.23	C
ATOM	704	N	PRO	A	100	13.871	-6.827	10.953	1.00	17.17	N
ATOM	705	CA	PRO	A	100	12.919	-6.506	9.881	1.00	16.97	C
ATOM	706	C	PRO	A	100	11.707	-5.698	10.338	1.00	16.82	C
ATOM	707	O	PRO	A	100	11.305	-4.766	9.642	1.00	16.79	O
ATOM	708	CB	PRO	A	100	12.467	-7.889	9.392	1.00	17.04	C
ATOM	709	CG	PRO	A	100	13.611	-8.790	9.692	1.00	16.92	C
ATOM	710	CD	PRO	A	100	14.256	-8.252	10.939	1.00	17.04	C
ATOM	711	N	PHE	A	101	11.147	-6.042	11.494	1.00	16.80	N
ATOM	712	CA	PHE	A	101	9.869	-5.473	11.928	1.00	16.70	C
ATOM	713	C	PHE	A	101	9.994	-4.135	12.660	1.00	16.47	C
ATOM	714	O	PHE	A	101	8.985	-3.498	12.971	1.00	16.61	O
ATOM	715	CB	PHE	A	101	9.089	-6.496	12.764	1.00	16.80	C

FIG. 4L

ATOM	716	CG	PHE	A	101	9.063	-7.875	12.160	1.00	17.13	C
ATOM	717	CD1	PHE	A	101	8.617	-8.073	10.852	1.00	17.47	C
ATOM	718	CE1	PHE	A	101	8.600	-9.344	10.286	1.00	17.80	C
ATOM	719	CZ	PHE	A	101	9.032	-10.437	11.031	1.00	17.99	C
ATOM	720	CE2	PHE	A	101	9.482	-10.252	12.340	1.00	17.77	C
ATOM	721	CD2	PHE	A	101	9.495	-8.975	12.894	1.00	17.36	C
ATOM	722	N	GLY	A	102	11.231	-3.717	12.926	1.00	16.07	N
ATOM	723	CA	GLY	A	102	11.499	-2.428	13.539	1.00	15.74	C
ATOM	724	C	GLY	A	102	11.060	-2.335	14.988	1.00	15.51	C
ATOM	725	O	GLY	A	102	10.991	-3.348	15.688	1.00	15.56	O
ATOM	726	N	CYS	A	103	10.748	-1.115	15.424	1.00	15.09	N
ATOM	727	CA	CYS	A	103	10.420	-0.837	16.820	1.00	14.69	C
ATOM	728	C	CYS	A	103	8.946	-1.051	17.182	1.00	14.97	C
ATOM	729	O	CYS	A	103	8.082	-1.145	16.308	1.00	15.08	O
ATOM	730	CB	CYS	A	103	10.858	0.581	17.193	1.00	14.64	C
ATOM	731	SG	CYS	A	103	9.883	1.905	16.452	1.00	12.98	S
ATOM	732	N	LEU	A	104	8.681	-1.127	18.485	1.00	15.04	N
ATOM	733	CA	LEU	A	104	7.341	-1.367	19.016	1.00	15.24	C
ATOM	734	C	LEU	A	104	6.437	-0.141	18.910	1.00	15.61	C
ATOM	735	O	LEU	A	104	5.214	-0.280	18.815	1.00	15.55	O
ATOM	736	CB	LEU	A	104	7.430	-1.847	20.473	1.00	15.21	C
ATOM	737	CG	LEU	A	104	6.260	-2.575	21.147	1.00	14.92	C
ATOM	738	CD1	LEU	A	104	5.811	-3.816	20.378	1.00	14.92	C
ATOM	739	CD2	LEU	A	104	6.644	-2.949	22.566	1.00	14.68	C
ATOM	740	N	LEU	A	105	7.039	1.051	18.931	1.00	15.86	N
ATOM	741	CA	LEU	A	105	6.289	2.300	18.796	1.00	16.29	C
ATOM	742	C	LEU	A	105	5.565	2.395	17.449	1.00	16.67	C
ATOM	743	O	LEU	A	105	4.396	2.785	17.394	1.00	16.80	O
ATOM	744	CB	LEU	A	105	7.191	3.525	19.017	1.00	16.11	C
ATOM	745	CG	LEU	A	105	6.552	4.907	18.805	1.00	16.10	C
ATOM	746	CD1	LEU	A	105	5.445	5.170	19.817	1.00	15.96	C
ATOM	747	CD2	LEU	A	105	7.591	6.020	18.841	1.00	15.85	C
ATOM	748	N	ASP	A	106	6.260	2.039	16.372	1.00	17.10	N
ATOM	749	CA	ASP	A	106	5.658	2.012	15.042	1.00	17.60	C
ATOM	750	C	ASP	A	106	4.586	0.933	14.951	1.00	17.69	C
ATOM	751	O	ASP	A	106	3.544	1.135	14.325	1.00	17.84	O
ATOM	752	CB	ASP	A	106	6.722	1.770	13.972	1.00	17.85	C
ATOM	753	CG	ASP	A	106	7.574	2.995	13.703	1.00	18.72	C
ATOM	754	OD1	ASP	A	106	8.698	2.820	13.184	1.00	19.86	O
ATOM	755	OD2	ASP	A	106	7.212	4.164	13.968	1.00	19.60	O
ATOM	756	N	TYR	A	107	4.852	-0.205	15.589	1.00	17.77	N
ATOM	757	CA	TYR	A	107	3.956	-1.355	15.567	1.00	18.06	C
ATOM	758	C	TYR	A	107	2.599	-1.049	16.199	1.00	18.45	C
ATOM	759	O	TYR	A	107	1.559	-1.386	15.626	1.00	18.63	O
ATOM	760	CB	TYR	A	107	4.612	-2.561	16.255	1.00	17.90	C
ATOM	761	CG	TYR	A	107	3.800	-3.834	16.181	1.00	17.51	C
ATOM	762	CD1	TYR	A	107	3.975	-4.735	15.133	1.00	17.26	C
ATOM	763	CE1	TYR	A	107	3.229	-5.907	15.061	1.00	17.00	C
ATOM	764	CZ	TYR	A	107	2.296	-6.185	16.045	1.00	16.88	C
ATOM	765	OH	TYR	A	107	1.557	-7.340	15.981	1.00	16.84	O
ATOM	766	CE2	TYR	A	107	2.103	-5.307	17.094	1.00	17.36	C
ATOM	767	CD2	TYR	A	107	2.855	-4.138	17.160	1.00	17.47	C
ATOM	768	N	VAL	A	108	2.615	-0.416	17.372	1.00	18.85	N
ATOM	769	CA	VAL	A	108	1.380	-0.072	18.078	1.00	19.41	C
ATOM	770	C	VAL	A	108	0.592	1.032	17.360	1.00	19.97	C
ATOM	771	O	VAL	A	108	-0.640	1.055	17.409	1.00	19.85	O
ATOM	772	CB	VAL	A	108	1.615	0.288	19.580	1.00	19.29	C
ATOM	773	CG1	VAL	A	108	2.162	-0.910	20.343	1.00	18.99	C
ATOM	774	CG2	VAL	A	108	2.532	1.496	19.741	1.00	19.23	C
ATOM	775	N	ARG	A	109	1.312	1.927	16.685	1.00	20.66	N

FIG. 4M

ATOM	776	CA	ARG	A	109	0.694	2.985	15.891	1.00	21.58	C
ATOM	777	C	ARG	A	109	-0.029	2.421	14.669	1.00	22.30	C
ATOM	778	O	ARG	A	109	-1.102	2.904	14.306	1.00	22.64	O
ATOM	779	CB	ARG	A	109	1.734	4.018	15.459	1.00	21.32	C
ATOM	780	CG	ARG	A	109	2.024	5.069	16.511	1.00	20.85	C
ATOM	781	CD	ARG	A	109	3.315	5.823	16.284	1.00	20.35	C
ATOM	782	NE	ARG	A	109	3.536	6.834	17.313	1.00	19.97	N
ATOM	783	CZ	ARG	A	109	4.261	7.935	17.147	1.00	19.50	C
ATOM	784	NH1	ARG	A	109	4.848	8.186	15.983	1.00	18.73	N
ATOM	785	NH2	ARG	A	109	4.397	8.791	18.150	1.00	19.22	N
ATOM	786	N	GLU	A	110	0.560	1.399	14.047	1.00	23.05	N
ATOM	787	CA	GLU	A	110	-0.053	0.732	12.900	1.00	23.62	C
ATOM	788	C	GLU	A	110	-1.249	-0.135	13.300	1.00	23.88	C
ATOM	789	O	GLU	A	110	-2.188	-0.296	12.519	1.00	24.16	O
ATOM	790	CB	GLU	A	110	0.978	-0.097	12.125	1.00	23.71	C
ATOM	791	CG	GLU	A	110	0.663	-0.221	10.640	1.00	24.25	C
ATOM	792	CD	GLU	A	110	1.781	-0.859	9.837	1.00	24.51	C
ATOM	793	OE1	GLU	A	110	1.796	-2.101	9.716	1.00	25.02	O
ATOM	794	OE2	GLU	A	110	2.636	-0.120	9.308	1.00	24.74	O
ATOM	795	N	HIS	A	111	-1.211	-0.686	14.513	1.00	24.14	N
ATOM	796	CA	HIS	A	111	-2.284	-1.555	15.009	1.00	24.29	C
ATOM	797	C	HIS	A	111	-3.073	-0.928	16.169	1.00	24.39	C
ATOM	798	O	HIS	A	111	-3.360	-1.589	17.172	1.00	24.14	O
ATOM	799	CB	HIS	A	111	-1.725	-2.927	15.406	1.00	24.23	C
ATOM	800	CG	HIS	A	111	-1.061	-3.658	14.281	1.00	24.34	C
ATOM	801	ND1	HIS	A	111	0.307	-3.801	14.191	1.00	24.43	N
ATOM	802	CE1	HIS	A	111	0.605	-4.483	13.099	1.00	24.21	C
ATOM	803	NE2	HIS	A	111	-0.519	-4.787	12.478	1.00	24.25	N
ATOM	804	CD2	HIS	A	111	-1.577	-4.284	13.196	1.00	24.27	C
ATOM	805	N	LYS	A	112	-3.423	0.349	16.014	1.00	24.75	N
ATOM	806	CA	LYS	A	112	-4.198	1.087	17.014	1.00	25.07	C
ATOM	807	C	LYS	A	112	-5.543	0.413	17.301	1.00	25.32	C
ATOM	808	O	LYS	A	112	-6.367	0.235	16.395	1.00	25.54	O
ATOM	809	CB	LYS	A	112	-4.419	2.533	16.565	1.00	24.93	C
ATOM	810	CG	LYS	A	112	-3.216	3.434	16.762	1.00	25.39	C
ATOM	811	CD	LYS	A	112	-3.415	4.786	16.093	1.00	25.76	C
ATOM	812	CE	LYS	A	112	-2.172	5.652	16.216	1.00	25.95	C
ATOM	813	NZ	LYS	A	112	-2.035	6.247	17.578	1.00	26.44	N
ATOM	814	N	ASP	A	113	-5.739	0.035	18.564	1.00	25.33	N
ATOM	815	CA	ASP	A	113	-6.950	-0.651	19.028	1.00	25.33	C
ATOM	816	C	ASP	A	113	-7.201	-1.987	18.312	1.00	25.23	C
ATOM	817	O	ASP	A	113	-8.350	-2.384	18.093	1.00	25.58	O
ATOM	818	CB	ASP	A	113	-8.173	0.276	18.940	1.00	25.39	C
ATOM	819	N	ASN	A	114	-6.113	-2.671	17.960	1.00	24.90	N
ATOM	820	CA	ASN	A	114	-6.171	-3.981	17.314	1.00	24.46	C
ATOM	821	C	ASN	A	114	-5.196	-4.980	17.950	1.00	24.25	C
ATOM	822	O	ASN	A	114	-5.069	-6.119	17.500	1.00	24.20	O
ATOM	823	CB	ASN	A	114	-5.912	-3.847	15.810	1.00	24.64	C
ATOM	824	CG	ASN	A	114	-6.504	-4.993	15.008	1.00	24.41	C
ATOM	825	OD1	ASN	A	114	-7.719	-5.201	14.996	1.00	24.43	O
ATOM	826	ND2	ASN	A	114	-5.643	-5.743	14.330	1.00	24.11	N
ATOM	827	N	ILE	A	115	-4.505	-4.533	18.995	1.00	24.08	N
ATOM	828	CA	ILE	A	115	-3.672	-5.405	19.818	1.00	23.73	C
ATOM	829	C	ILE	A	115	-4.448	-5.786	21.078	1.00	23.47	C
ATOM	830	O	ILE	A	115	-5.055	-4.929	21.725	1.00	23.56	O
ATOM	831	CB	ILE	A	115	-2.343	-4.708	20.193	1.00	23.74	C
ATOM	832	CG1	ILE	A	115	-1.615	-4.209	18.941	1.00	23.87	C
ATOM	833	CD1	ILE	A	115	-0.899	-2.891	19.135	1.00	23.85	C
ATOM	834	CG2	ILE	A	115	-1.441	-5.653	20.983	1.00	23.98	C
ATOM	835	N	GLY	A	116	-4.429	-7.073	21.415	1.00	22.94	N

FIG. 4N

ATOM	836	CA	GLY	A	116	-5.103	-7.573	22.599	1.00	22.60	C
ATOM	837	C	GLY	A	116	-4.396	-7.208	23.892	1.00	22.40	C
ATOM	838	O	GLY	A	116	-3.251	-6.747	23.878	1.00	22.38	O
ATOM	839	N	SER	A	117	-5.088	-7.422	25.009	1.00	22.12	N
ATOM	840	CA	SER	A	117	-4.558	-7.114	26.339	1.00	21.83	C
ATOM	841	C	SER	A	117	-3.441	-8.064	26.751	1.00	21.57	C
ATOM	842	O	SER	A	117	-2.580	-7.702	27.555	1.00	21.49	O
ATOM	843	CB	SER	A	117	-5.676	-7.138	27.390	1.00	21.91	C
ATOM	844	OG	SER	A	117	-6.555	-8.235	27.193	1.00	21.91	O
ATOM	845	N	GLN	A	118	-3.465	-9.276	26.201	1.00	21.34	N
ATOM	846	CA	GLN	A	118	-2.458	-10.287	26.503	1.00	21.12	C
ATOM	847	C	GLN	A	118	-1.077	-9.861	26.002	1.00	21.11	C
ATOM	848	O	GLN	A	118	-0.097	-9.964	26.733	1.00	20.98	O
ATOM	849	CB	GLN	A	118	-2.864	-11.650	25.925	1.00	20.93	C
ATOM	850	CG	GLN	A	118	-1.952	-12.816	26.314	1.00	21.00	C
ATOM	851	CD	GLN	A	118	-1.973	-13.123	27.805	1.00	20.93	C
ATOM	852	OE1	GLN	A	118	-1.174	-12.577	28.568	1.00	21.15	O
ATOM	853	NE2	GLN	A	118	-2.881	-13.997	28.219	1.00	20.38	N
ATOM	854	N	TYR	A	119	-1.018	-9.368	24.766	1.00	21.15	N
ATOM	855	CA	TYR	A	119	0.232	-8.915	24.156	1.00	21.24	C
ATOM	856	C	TYR	A	119	0.756	-7.623	24.783	1.00	21.05	C
ATOM	857	O	TYR	A	119	1.967	-7.455	24.936	1.00	20.83	O
ATOM	858	CB	TYR	A	119	0.060	-8.735	22.643	1.00	21.58	C
ATOM	859	CG	TYR	A	119	0.053	-10.033	21.872	1.00	22.24	C
ATOM	860	CD1	TYR	A	119	1.206	-10.498	21.246	1.00	22.59	C
ATOM	861	CE1	TYR	A	119	1.206	-11.698	20.537	1.00	23.26	C
ATOM	862	CZ	TYR	A	119	0.040	-12.441	20.453	1.00	23.55	C
ATOM	863	OH	TYR	A	119	0.031	-13.629	19.757	1.00	24.38	O
ATOM	864	CE2	TYR	A	119	-1.120	-11.998	21.067	1.00	23.26	C
ATOM	865	CD2	TYR	A	119	-1.110	-10.800	21.770	1.00	22.85	C
ATOM	866	N	LEU	A	120	-0.158	-6.721	25.140	1.00	20.87	N
ATOM	867	CA	LEU	A	120	0.202	-5.445	25.759	1.00	20.64	C
ATOM	868	C	LEU	A	120	0.861	-5.637	27.121	1.00	20.48	C
ATOM	869	O	LEU	A	120	1.908	-5.046	27.397	1.00	20.68	O
ATOM	870	CB	LEU	A	120	-1.022	-4.533	25.896	1.00	20.53	C
ATOM	871	CG	LEU	A	120	-1.410	-3.673	24.690	1.00	20.55	C
ATOM	872	CD1	LEU	A	120	-2.808	-3.095	24.882	1.00	20.39	C
ATOM	873	CD2	LEU	A	120	-0.393	-2.563	24.434	1.00	20.42	C
ATOM	874	N	LEU	A	121	0.248	-6.469	27.960	1.00	19.98	N
ATOM	875	CA	LEU	A	121	0.778	-6.746	29.293	1.00	19.62	C
ATOM	876	C	LEU	A	121	2.035	-7.613	29.242	1.00	19.36	C
ATOM	877	O	LEU	A	121	2.931	-7.460	30.076	1.00	19.37	O
ATOM	878	CB	LEU	A	121	-0.290	-7.386	30.186	1.00	19.64	C
ATOM	879	CG	LEU	A	121	-1.394	-6.440	30.667	1.00	19.34	C
ATOM	880	CD1	LEU	A	121	-2.681	-7.200	30.946	1.00	18.84	C
ATOM	881	CD2	LEU	A	121	-0.955	-5.646	31.887	1.00	19.08	C
ATOM	882	N	ASN	A	122	2.094	-8.512	28.260	1.00	18.94	N
ATOM	883	CA	ASN	A	122	3.278	-9.332	28.014	1.00	18.57	C
ATOM	884	C	ASN	A	122	4.501	-8.479	27.681	1.00	18.33	C
ATOM	885	O	ASN	A	122	5.601	-8.749	28.167	1.00	18.13	O
ATOM	886	CB	ASN	A	122	3.019	-10.332	26.882	1.00	18.68	C
ATOM	887	CG	ASN	A	122	2.368	-11.624	27.364	1.00	18.94	C
ATOM	888	OD1	ASN	A	122	2.342	-12.618	26.639	1.00	19.98	O
ATOM	889	ND2	ASN	A	122	1.828	-11.611	28.576	1.00	18.77	N
ATOM	890	N	TRP	A	123	4.294	-7.447	26.861	1.00	18.03	N
ATOM	891	CA	TRP	A	123	5.358	-6.516	26.482	1.00	17.83	C
ATOM	892	C	TRP	A	123	5.942	-5.801	27.703	1.00	17.55	C
ATOM	893	O	TRP	A	123	7.167	-5.709	27.846	1.00	17.38	O
ATOM	894	CB	TRP	A	123	4.860	-5.507	25.436	1.00	17.78	C
ATOM	895	CG	TRP	A	123	4.534	-6.123	24.092	1.00	18.02	C

FIG. 40

ATOM	896	CD1	TRP	A	123	5.027	-7.295	23.579	1.00	18.24	C
ATOM	897	NE1	TRP	A	123	4.499	-7.529	22.331	1.00	18.13	N
ATOM	898	CE2	TRP	A	123	3.642	-6.509	22.011	1.00	17.96	C
ATOM	899	CD2	TRP	A	123	3.639	-5.603	23.098	1.00	18.22	C
ATOM	900	CE3	TRP	A	123	2.831	-4.458	23.011	1.00	18.14	C
ATOM	901	CZ3	TRP	A	123	2.069	-4.257	21.864	1.00	17.77	C
ATOM	902	CH2	TRP	A	123	2.100	-5.177	20.804	1.00	18.00	C
ATOM	903	CZ2	TRP	A	123	2.877	-6.306	20.859	1.00	17.93	C
ATOM	904	N	CYS	A	124	5.062	-5.323	28.585	1.00	17.03	N
ATOM	905	CA	CYS	A	124	5.471	-4.704	29.847	1.00	16.59	C
ATOM	906	C	CYS	A	124	6.273	-5.674	30.718	1.00	16.58	C
ATOM	907	O	CYS	A	124	7.219	-5.262	31.394	1.00	16.52	O
ATOM	908	CB	CYS	A	124	4.257	-4.175	30.617	1.00	16.60	C
ATOM	909	SG	CYS	A	124	3.203	-3.031	29.689	1.00	15.92	S
ATOM	910	N	VAL	A	125	5.896	-6.956	30.693	1.00	16.20	N
ATOM	911	CA	VAL	A	125	6.645	-8.005	31.388	1.00	15.83	C
ATOM	912	C	VAL	A	125	8.038	-8.155	30.773	1.00	15.49	C
ATOM	913	O	VAL	A	125	9.040	-8.194	31.491	1.00	15.37	O
ATOM	914	CB	VAL	A	125	5.918	-9.386	31.349	1.00	15.89	C
ATOM	915	CG1	VAL	A	125	6.772	-10.476	31.989	1.00	15.63	C
ATOM	916	CG2	VAL	A	125	4.573	-9.320	32.036	1.00	16.05	C
ATOM	917	N	GLN	A	126	8.087	-8.228	29.444	1.00	15.03	N
ATOM	918	CA	GLN	A	126	9.329	-8.499	28.722	1.00	14.63	C
ATOM	919	C	GLN	A	126	10.327	-7.345	28.800	1.00	14.22	C
ATOM	920	O	GLN	A	126	11.527	-7.572	28.907	1.00	14.18	O
ATOM	921	CB	GLN	A	126	9.041	-8.886	27.267	1.00	14.73	C
ATOM	922	CG	GLN	A	126	8.420	-10.273	27.113	1.00	14.70	C
ATOM	923	CD	GLN	A	126	8.163	-10.676	25.667	1.00	15.18	C
ATOM	924	OE1	GLN	A	126	8.143	-9.839	24.771	1.00	15.11	O
ATOM	925	NE2	GLN	A	126	7.957	-11.970	25.445	1.00	16.09	N
ATOM	926	N	ILE	A	127	9.827	-6.112	28.761	1.00	14.17	N
ATOM	927	CA	ILE	A	127	10.682	-4.931	28.897	1.00	13.74	C
ATOM	928	C	ILE	A	127	11.219	-4.811	30.329	1.00	13.55	C
ATOM	929	O	ILE	A	127	12.400	-4.510	30.529	1.00	13.38	O
ATOM	930	CB	ILE	A	127	9.947	-3.642	28.437	1.00	13.70	C
ATOM	931	CG1	ILE	A	127	9.651	-3.704	26.936	1.00	13.47	C
ATOM	932	CD1	ILE	A	127	8.417	-2.941	26.507	1.00	13.43	C
ATOM	933	CG2	ILE	A	127	10.777	-2.395	28.749	1.00	14.06	C
ATOM	934	N	ALA	A	128	10.360	-5.069	31.315	1.00	13.26	N
ATOM	935	CA	ALA	A	128	10.782	-5.073	32.717	1.00	13.19	C
ATOM	936	C	ALA	A	128	11.834	-6.150	32.984	1.00	13.12	C
ATOM	937	O	ALA	A	128	12.792	-5.915	33.717	1.00	12.89	O
ATOM	938	CB	ALA	A	128	9.589	-5.247	33.642	1.00	13.22	C
ATOM	939	N	LYS	A	129	11.646	-7.321	32.375	1.00	13.39	N
ATOM	940	CA	LYS	A	129	12.597	-8.428	32.465	1.00	13.63	C
ATOM	941	C	LYS	A	129	13.982	-8.029	31.962	1.00	13.65	C
ATOM	942	O	LYS	A	129	14.983	-8.263	32.641	1.00	13.64	O
ATOM	943	CB	LYS	A	129	12.090	-9.633	31.670	1.00	13.64	C
ATOM	944	CG	LYS	A	129	11.708	-10.826	32.521	1.00	14.06	C
ATOM	945	CD	LYS	A	129	10.474	-11.522	31.974	1.00	14.78	C
ATOM	946	CE	LYS	A	129	10.846	-12.768	31.189	1.00	15.45	C
ATOM	947	NZ	LYS	A	129	9.872	-13.028	30.096	1.00	16.44	N
ATOM	948	N	GLY	A	130	14.023	-7.427	30.773	1.00	13.68	N
ATOM	949	CA	GLY	A	130	15.263	-6.989	30.155	1.00	13.85	C
ATOM	950	C	GLY	A	130	15.910	-5.800	30.847	1.00	13.91	C
ATOM	951	O	GLY	A	130	17.134	-5.673	30.850	1.00	13.92	O
ATOM	952	N	MET	A	131	15.086	-4.924	31.421	1.00	14.05	N
ATOM	953	CA	MET	A	131	15.578	-3.790	32.200	1.00	14.04	C
ATOM	954	C	MET	A	131	16.183	-4.253	33.521	1.00	13.87	C
ATOM	955	O	MET	A	131	17.202	-3.722	33.954	1.00	14.02	O

FIG. 4P



ATOM	956	CB	MET	A	131	14.464	-2.772	32.458	1.00	14.17	C
ATOM	957	CG	MET	A	131	14.115	-1.875	31.268	1.00	14.47	C
ATOM	958	SD	MET	A	131	15.527	-1.154	30.395	1.00	14.30	S
ATOM	959	CE	MET	A	131	16.077	0.063	31.559	1.00	14.66	C
ATOM	960	N	ASN	A	132	15.557	-5.248	34.149	1.00	14.00	N
ATOM	961	CA	ASN	A	132	16.097	-5.870	35.361	1.00	14.12	C
ATOM	962	C	ASN	A	132	17.455	-6.520	35.126	1.00	14.16	C
ATOM	963	O	ASN	A	132	18.321	-6.488	36.003	1.00	13.96	O
ATOM	964	CB	ASN	A	132	15.118	-6.895	35.943	1.00	14.01	C
ATOM	965	CG	ASN	A	132	15.664	-7.590	37.181	1.00	13.85	C
ATOM	966	OD1	ASN	A	132	15.927	-6.950	38.195	1.00	13.94	O
ATOM	967	ND2	ASN	A	132	15.851	-8.904	37.094	1.00	13.83	N
ATOM	968	N	TYR	A	133	17.631	-7.100	33.941	1.00	14.46	N
ATOM	969	CA	TYR	A	133	18.905	-7.695	33.546	1.00	14.93	C
ATOM	970	C	TYR	A	133	20.013	-6.653	33.499	1.00	15.03	C
ATOM	971	O	TYR	A	133	21.098	-6.870	34.041	1.00	15.09	O
ATOM	972	CB	TYR	A	133	18.794	-8.392	32.190	1.00	14.86	C
ATOM	973	CG	TYR	A	133	20.109	-8.961	31.712	1.00	15.45	C
ATOM	974	CD1	TYR	A	133	20.586	-10.174	32.207	1.00	15.42	C
ATOM	975	CE1	TYR	A	133	21.798	-10.697	31.777	1.00	15.95	C
ATOM	976	CZ	TYR	A	133	22.551	-10.005	30.844	1.00	16.11	C
ATOM	977	OH	TYR	A	133	23.750	-10.524	30.415	1.00	16.45	O
ATOM	978	CE2	TYR	A	133	22.105	-8.793	30.343	1.00	16.01	C
ATOM	979	CD2	TYR	A	133	20.889	-8.278	30.777	1.00	15.79	C
ATOM	980	N	LEU	A	134	19.728	-5.529	32.842	1.00	15.43	N
ATOM	981	CA	LEU	A	134	20.669	-4.415	32.734	1.00	15.54	C
ATOM	982	C	LEU	A	134	21.023	-3.873	34.116	1.00	15.53	C
ATOM	983	O	LEU	A	134	22.183	-3.563	34.384	1.00	15.60	O
ATOM	984	CB	LEU	A	134	20.100	-3.303	31.841	1.00	15.46	C
ATOM	985	CG	LEU	A	134	19.903	-3.594	30.345	1.00	15.60	C
ATOM	986	CD1	LEU	A	134	19.222	-2.421	29.644	1.00	15.26	C
ATOM	987	CD2	LEU	A	134	21.213	-3.952	29.638	1.00	15.39	C
ATOM	988	N	GLU	A	135	20.020	-3.775	34.987	1.00	15.59	N
ATOM	989	CA	GLU	A	135	20.238	-3.406	36.384	1.00	15.71	C
ATOM	990	C	GLU	A	135	21.181	-4.399	37.068	1.00	15.74	C
ATOM	991	O	GLU	A	135	22.108	-3.989	37.772	1.00	15.87	O
ATOM	992	CB	GLU	A	135	18.906	-3.305	37.141	1.00	15.64	C
ATOM	993	CG	GLU	A	135	19.044	-3.244	38.658	1.00	15.90	C
ATOM	994	CD	GLU	A	135	18.038	-2.323	39.327	1.00	16.38	C
ATOM	995	OE1	GLU	A	135	18.386	-1.738	40.371	1.00	16.68	O
ATOM	996	OE2	GLU	A	135	16.899	-2.185	38.828	1.00	17.01	O
ATOM	997	N	ASP	A	136	20.948	-5.695	36.843	1.00	15.53	N
ATOM	998	CA	ASP	A	136	21.761	-6.757	37.437	1.00	15.42	C
ATOM	999	C	ASP	A	136	23.209	-6.723	36.945	1.00	15.65	C
ATOM	1000	O	ASP	A	136	24.124	-7.130	37.661	1.00	15.81	O
ATOM	1001	CB	ASP	A	136	21.142	-8.133	37.173	1.00	15.08	C
ATOM	1002	CG	ASP	A	136	20.075	-8.506	38.195	1.00	14.79	C
ATOM	1003	OD1	ASP	A	136	19.203	-9.333	37.857	1.00	14.50	O
ATOM	1004	OD2	ASP	A	136	20.021	-8.035	39.353	1.00	13.86	O
ATOM	1005	N	ARG	A	137	23.405	-6.229	35.724	1.00	15.75	N
ATOM	1006	CA	ARG	A	137	24.738	-6.055	35.158	1.00	15.75	C
ATOM	1007	C	ARG	A	137	25.296	-4.665	35.479	1.00	16.06	C
ATOM	1008	O	ARG	A	137	26.324	-4.257	34.930	1.00	16.25	O
ATOM	1009	CB	ARG	A	137	24.714	-6.298	33.642	1.00	15.43	C
ATOM	1010	CG	ARG	A	137	24.445	-7.748	33.236	1.00	15.41	C
ATOM	1011	CD	ARG	A	137	25.674	-8.653	33.240	1.00	15.00	C
ATOM	1012	NE	ARG	A	137	26.361	-8.648	31.950	1.00	15.35	N
ATOM	1013	CZ	ARG	A	137	27.624	-8.270	31.767	1.00	16.00	C
ATOM	1014	NH1	ARG	A	137	28.368	-7.863	32.787	1.00	16.20	N
ATOM	1015	NH2	ARG	A	137	28.150	-8.300	30.554	1.00	16.19	N

FIG. 4Q

ATOM	1016	N	ARG	A	138	24.610	-3.953	36.377	1.00	16.30	N
ATOM	1017	CA	ARG	A	138	24.972	-2.591	36.795	1.00	16.39	C
ATOM	1018	C	ARG	A	138	25.133	-1.644	35.603	1.00	16.43	C
ATOM	1019	O	ARG	A	138	26.125	-0.919	35.493	1.00	16.47	O
ATOM	1020	CB	ARG	A	138	26.220	-2.593	37.694	1.00	16.44	C
ATOM	1021	CG	ARG	A	138	26.096	-3.448	38.962	1.00	16.86	C
ATOM	1022	CD	ARG	A	138	25.064	-2.933	39.960	1.00	17.57	C
ATOM	1023	NE	ARG	A	138	24.744	-3.899	41.012	1.00	17.41	N
ATOM	1024	CZ	ARG	A	138	23.510	-4.217	41.394	1.00	17.24	C
ATOM	1025	NH1	ARG	A	138	22.457	-3.668	40.803	1.00	16.80	N
ATOM	1026	NH2	ARG	A	138	23.326	-5.096	42.371	1.00	17.60	N
ATOM	1027	N	LEU	A	139	24.142	-1.669	34.713	1.00	16.41	N
ATOM	1028	CA	LEU	A	139	24.147	-0.849	33.503	1.00	16.25	C
ATOM	1029	C	LEU	A	139	22.907	0.032	33.428	1.00	16.12	C
ATOM	1030	O	LEU	A	139	21.777	-0.466	33.401	1.00	16.11	O
ATOM	1031	CB	LEU	A	139	24.232	-1.727	32.249	1.00	16.18	C
ATOM	1032	CG	LEU	A	139	25.393	-2.719	32.103	1.00	16.35	C
ATOM	1033	CD1	LEU	A	139	25.139	-3.640	30.920	1.00	16.00	C
ATOM	1034	CD2	LEU	A	139	26.739	-2.003	31.956	1.00	16.32	C
ATOM	1035	N	VAL	A	140	23.127	1.343	33.406	1.00	15.91	N
ATOM	1036	CA	VAL	A	140	22.040	2.305	33.255	1.00	15.76	C
ATOM	1037	C	VAL	A	140	21.759	2.479	31.765	1.00	15.77	C
ATOM	1038	O	VAL	A	140	22.687	2.597	30.965	1.00	16.09	O
ATOM	1039	CB	VAL	A	140	22.373	3.659	33.931	1.00	15.73	C
ATOM	1040	CG1	VAL	A	140	21.219	4.655	33.782	1.00	15.53	C
ATOM	1041	CG2	VAL	A	140	22.706	3.451	35.408	1.00	15.49	C
ATOM	1042	N	HIS	A	141	20.481	2.466	31.398	1.00	15.61	N
ATOM	1043	CA	HIS	A	141	20.083	2.592	29.999	1.00	15.51	C
ATOM	1044	C	HIS	A	141	20.237	4.021	29.485	1.00	15.35	C
ATOM	1045	O	HIS	A	141	20.917	4.249	28.483	1.00	15.17	O
ATOM	1046	CB	HIS	A	141	18.648	2.099	29.786	1.00	15.44	C
ATOM	1047	CG	HIS	A	141	18.279	1.941	28.345	1.00	15.37	C
ATOM	1048	ND1	HIS	A	141	18.061	0.711	27.764	1.00	15.41	N
ATOM	1049	CE1	HIS	A	141	17.766	0.879	26.486	1.00	15.73	C
ATOM	1050	NE2	HIS	A	141	17.786	2.172	26.218	1.00	15.30	N
ATOM	1051	CD2	HIS	A	141	18.109	2.858	27.363	1.00	15.35	C
ATOM	1052	N	ARG	A	142	19.577	4.966	30.159	1.00	15.30	N
ATOM	1053	CA	ARG	A	142	19.722	6.399	29.885	1.00	15.16	C
ATOM	1054	C	ARG	A	142	18.887	6.934	28.711	1.00	14.70	C
ATOM	1055	O	ARG	A	142	18.870	8.145	28.468	1.00	14.69	O
ATOM	1056	CB	ARG	A	142	21.199	6.749	29.680	1.00	15.59	C
ATOM	1057	CG	ARG	A	142	21.635	8.016	30.338	1.00	16.40	C
ATOM	1058	CD	ARG	A	142	23.099	8.312	30.154	1.00	18.03	C
ATOM	1059	NE	ARG	A	142	23.907	7.603	31.138	1.00	19.00	N
ATOM	1060	CZ	ARG	A	142	24.785	8.185	31.940	1.00	19.30	C
ATOM	1061	NH1	ARG	A	142	24.980	9.495	31.878	1.00	19.43	N
ATOM	1062	NH2	ARG	A	142	25.471	7.454	32.808	1.00	19.76	N
ATOM	1063	N	ASP	A	143	18.198	6.042	27.997	1.00	13.94	N
ATOM	1064	CA	ASP	A	143	17.387	6.430	26.837	1.00	13.35	C
ATOM	1065	C	ASP	A	143	16.296	5.402	26.491	1.00	13.04	C
ATOM	1066	O	ASP	A	143	16.093	5.060	25.323	1.00	12.50	O
ATOM	1067	CB	ASP	A	143	18.292	6.691	25.623	1.00	13.48	C
ATOM	1068	CG	ASP	A	143	17.555	7.329	24.455	1.00	13.74	C
ATOM	1069	OD1	ASP	A	143	16.493	7.965	24.657	1.00	13.89	O
ATOM	1070	OD2	ASP	A	143	17.975	7.239	23.287	1.00	13.81	O
ATOM	1071	N	LEU	A	144	15.596	4.911	27.510	1.00	12.63	N
ATOM	1072	CA	LEU	A	144	14.526	3.949	27.286	1.00	12.23	C
ATOM	1073	C	LEU	A	144	13.273	4.650	26.767	1.00	12.03	C
ATOM	1074	O	LEU	A	144	12.858	5.688	27.293	1.00	11.80	O
ATOM	1075	CB	LEU	A	144	14.227	3.128	28.549	1.00	12.33	C

FIG. 4R

ATOM	1076	CG	LEU	A	144	13.240	1.955	28.416	1.00	12.30	C
ATOM	1077	CD1	LEU	A	144	13.783	0.833	27.522	1.00	11.94	C
ATOM	1078	CD2	LEU	A	144	12.867	1.415	29.784	1.00	12.32	C
ATOM	1079	N	ALA	A	145	12.698	4.063	25.721	1.00	11.66	N
ATOM	1080	CA	ALA	A	145	11.527	4.589	25.030	1.00	11.54	C
ATOM	1081	C	ALA	A	145	10.880	3.441	24.266	1.00	11.51	C
ATOM	1082	O	ALA	A	145	11.500	2.385	24.093	1.00	11.58	O
ATOM	1083	CB	ALA	A	145	11.934	5.705	24.070	1.00	11.25	C
ATOM	1084	N	ALA	A	146	9.643	3.637	23.809	1.00	11.22	N
ATOM	1085	CA	ALA	A	146	8.981	2.635	22.974	1.00	11.36	C
ATOM	1086	C	ALA	A	146	9.666	2.531	21.612	1.00	11.56	C
ATOM	1087	O	ALA	A	146	9.609	1.485	20.955	1.00	11.93	O
ATOM	1088	CB	ALA	A	146	7.502	2.942	22.816	1.00	11.16	C
ATOM	1089	N	ARG	A	147	10.317	3.619	21.203	1.00	11.49	N
ATOM	1090	CA	ARG	A	147	11.093	3.644	19.968	1.00	11.56	C
ATOM	1091	C	ARG	A	147	12.376	2.819	20.100	1.00	12.09	C
ATOM	1092	O	ARG	A	147	12.922	2.354	19.099	1.00	12.37	O
ATOM	1093	CB	ARG	A	147	11.402	5.090	19.534	1.00	11.01	C
ATOM	1094	CG	ARG	A	147	12.485	5.802	20.341	1.00	9.48	C
ATOM	1095	CD	ARG	A	147	12.519	7.316	20.171	1.00	7.47	C
ATOM	1096	NE	ARG	A	147	13.431	7.949	21.123	1.00	5.04	N
ATOM	1097	CZ	ARG	A	147	13.052	8.633	22.202	1.00	5.82	C
ATOM	1098	NH1	ARG	A	147	11.765	8.791	22.483	1.00	5.76	N
ATOM	1099	NH2	ARG	A	147	13.965	9.165	23.008	1.00	5.16	N
ATOM	1100	N	ASN	A	148	12.846	2.641	21.333	1.00	12.61	N
ATOM	1101	CA	ASN	A	148	14.078	1.897	21.590	1.00	13.19	C
ATOM	1102	C	ASN	A	148	13.822	0.468	22.070	1.00	13.54	C
ATOM	1103	O	ASN	A	148	14.684	-0.164	22.680	1.00	13.69	O
ATOM	1104	CB	ASN	A	148	14.989	2.671	22.550	1.00	13.15	C
ATOM	1105	CG	ASN	A	148	15.726	3.813	21.861	1.00	13.53	C
ATOM	1106	OD1	ASN	A	148	15.887	3.816	20.640	1.00	13.84	O
ATOM	1107	ND2	ASN	A	148	16.176	4.790	22.644	1.00	13.47	N
ATOM	1108	N	VAL	A	149	12.620	-0.025	21.787	1.00	14.09	N
ATOM	1109	CA	VAL	A	149	12.273	-1.429	21.973	1.00	14.37	C
ATOM	1110	C	VAL	A	149	11.944	-1.994	20.597	1.00	14.62	C
ATOM	1111	O	VAL	A	149	11.054	-1.483	19.910	1.00	14.75	O
ATOM	1112	CB	VAL	A	149	11.064	-1.612	22.922	1.00	14.42	C
ATOM	1113	CG1	VAL	A	149	10.720	-3.089	23.082	1.00	14.46	C
ATOM	1114	CG2	VAL	A	149	11.335	-0.981	24.281	1.00	14.24	C
ATOM	1115	N	LEU	A	150	12.667	-3.036	20.195	1.00	14.74	N
ATOM	1116	CA	LEU	A	150	12.506	-3.622	18.866	1.00	14.99	C
ATOM	1117	C	LEU	A	150	11.660	-4.894	18.875	1.00	15.26	C
ATOM	1118	O	LEU	A	150	11.748	-5.709	19.795	1.00	15.33	O
ATOM	1119	CB	LEU	A	150	13.872	-3.900	18.225	1.00	15.05	C
ATOM	1120	CG	LEU	A	150	14.788	-2.723	17.865	1.00	15.07	C
ATOM	1121	CD1	LEU	A	150	16.191	-3.229	17.582	1.00	15.01	C
ATOM	1122	CD2	LEU	A	150	14.261	-1.924	16.673	1.00	15.24	C
ATOM	1123	N	VAL	A	151	10.856	-5.059	17.827	1.00	15.71	N
ATOM	1124	CA	VAL	A	151	9.973	-6.213	17.680	1.00	16.00	C
ATOM	1125	C	VAL	A	151	10.694	-7.394	17.025	1.00	16.38	C
ATOM	1126	O	VAL	A	151	10.889	-7.408	15.809	1.00	16.66	O
ATOM	1127	CB	VAL	A	151	8.708	-5.856	16.849	1.00	15.94	C
ATOM	1128	CG1	VAL	A	151	7.722	-7.018	16.821	1.00	15.70	C
ATOM	1129	CG2	VAL	A	151	8.035	-4.600	17.389	1.00	15.48	C
ATOM	1130	N	LYS	A	152	11.087	-8.377	17.834	1.00	16.71	N
ATOM	1131	CA	LYS	A	152	11.634	-9.631	17.313	1.00	17.11	C
ATOM	1132	C	LYS	A	152	10.521	-10.398	16.607	1.00	17.51	C
ATOM	1133	O	LYS	A	152	10.658	-10.773	15.438	1.00	17.61	O
ATOM	1134	CB	LYS	A	152	12.246	-10.476	18.437	1.00	17.15	C
ATOM	1135	CG	LYS	A	152	13.295	-11.482	17.975	1.00	16.68	C

FIG. 4S

ATOM	1136	N	THR	A	153	9.431	-10.631	17.341	1.00	17.88	N
ATOM	1137	CA	THR	A	153	8.164	-11.139	16.806	1.00	18.19	C
ATOM	1138	C	THR	A	153	7.038	-10.433	17.570	1.00	18.52	C
ATOM	1139	O	THR	A	153	7.300	-9.834	18.615	1.00	18.53	O
ATOM	1140	CB	THR	A	153	8.037	-12.685	16.981	1.00	18.12	C
ATOM	1141	OG1	THR	A	153	7.904	-13.012	18.371	1.00	18.04	O
ATOM	1142	CG2	THR	A	153	9.307	-13.423	16.553	1.00	18.27	C
ATOM	1143	N	PRO	A	154	5.795	-10.493	17.082	1.00	18.87	N
ATOM	1144	CA	PRO	A	154	4.659	-9.917	17.818	1.00	19.12	C
ATOM	1145	C	PRO	A	154	4.620	-10.297	19.307	1.00	19.43	C
ATOM	1146	O	PRO	A	154	4.094	-9.530	20.114	1.00	19.21	O
ATOM	1147	CB	PRO	A	154	3.447	-10.499	17.089	1.00	19.02	C
ATOM	1148	CG	PRO	A	154	3.913	-10.688	15.702	1.00	18.89	C
ATOM	1149	CD	PRO	A	154	5.364	-11.076	15.796	1.00	18.96	C
ATOM	1150	N	GLN	A	155	5.182	-11.452	19.659	1.00	19.97	N
ATOM	1151	CA	GLN	A	155	5.165	-11.932	21.043	1.00	20.54	C
ATOM	1152	C	GLN	A	155	6.540	-11.902	21.728	1.00	20.48	C
ATOM	1153	O	GLN	A	155	6.698	-12.395	22.849	1.00	20.38	O
ATOM	1154	CB	GLN	A	155	4.531	-13.333	21.131	1.00	20.84	C
ATOM	1155	CG	GLN	A	155	5.085	-14.375	20.160	1.00	21.92	C
ATOM	1156	CD	GLN	A	155	4.441	-14.315	18.777	1.00	23.72	C
ATOM	1157	OE1	GLN	A	155	5.141	-14.391	17.760	1.00	24.36	O
ATOM	1158	NE2	GLN	A	155	3.114	-14.177	18.735	1.00	23.67	N
ATOM	1159	N	HIS	A	156	7.522	-11.303	21.057	1.00	20.46	N
ATOM	1160	CA	HIS	A	156	8.882	-11.203	21.582	1.00	20.45	C
ATOM	1161	C	HIS	A	156	9.462	-9.819	21.287	1.00	20.43	C
ATOM	1162	O	HIS	A	156	9.701	-9.478	20.130	1.00	20.54	O
ATOM	1163	CB	HIS	A	156	9.757	-12.299	20.963	1.00	20.35	C
ATOM	1164	CG	HIS	A	156	11.064	-12.512	21.661	1.00	20.28	C
ATOM	1165	ND1	HIS	A	156	11.423	-13.726	22.208	1.00	20.15	N
ATOM	1166	CE1	HIS	A	156	12.625	-13.626	22.747	1.00	19.81	C
ATOM	1167	NE2	HIS	A	156	13.062	-12.393	22.563	1.00	19.97	N
ATOM	1168	CD2	HIS	A	156	12.107	-11.678	21.882	1.00	20.26	C
ATOM	1169	N	VAL	A	157	9.675	-9.026	22.335	1.00	20.36	N
ATOM	1170	CA	VAL	A	157	10.275	-7.695	22.191	1.00	20.44	C
ATOM	1171	C	VAL	A	157	11.646	-7.604	22.868	1.00	20.70	C
ATOM	1172	O	VAL	A	157	11.932	-8.330	23.826	1.00	20.82	O
ATOM	1173	CB	VAL	A	157	9.347	-6.553	22.703	1.00	20.38	C
ATOM	1174	CG1	VAL	A	157	8.062	-6.494	21.892	1.00	20.44	C
ATOM	1175	CG2	VAL	A	157	9.050	-6.686	24.201	1.00	20.11	C
ATOM	1176	N	LYS	A	158	12.488	-6.706	22.361	1.00	20.85	N
ATOM	1177	CA	LYS	A	158	13.846	-6.545	22.872	1.00	20.92	C
ATOM	1178	C	LYS	A	158	14.212	-5.077	23.021	1.00	20.94	C
ATOM	1179	O	LYS	A	158	13.925	-4.268	22.140	1.00	21.23	O
ATOM	1180	CB	LYS	A	158	14.852	-7.217	21.935	1.00	21.03	C
ATOM	1181	CG	LYS	A	158	14.901	-8.735	22.032	1.00	21.12	C
ATOM	1182	CD	LYS	A	158	15.345	-9.358	20.717	1.00	21.17	C
ATOM	1183	CE	LYS	A	158	16.860	-9.469	20.639	1.00	21.47	C
ATOM	1184	NZ	LYS	A	158	17.364	-10.713	21.279	1.00	21.60	N
ATOM	1185	N	ILE	A	159	14.854	-4.747	24.137	1.00	20.82	N
ATOM	1186	CA	ILE	A	159	15.380	-3.406	24.373	1.00	20.62	C
ATOM	1187	C	ILE	A	159	16.663	-3.190	23.565	1.00	20.60	C
ATOM	1188	O	ILE	A	159	17.511	-4.083	23.477	1.00	20.36	O
ATOM	1189	CB	ILE	A	159	15.651	-3.196	25.883	1.00	20.67	C
ATOM	1190	CG1	ILE	A	159	14.357	-3.319	26.690	1.00	20.75	C
ATOM	1191	CD1	ILE	A	159	14.558	-3.910	28.064	1.00	20.51	C
ATOM	1192	CG2	ILE	A	159	16.291	-1.846	26.142	1.00	20.48	C
ATOM	1193	N	THR	A	160	16.792	-2.001	22.980	1.00	20.67	N
ATOM	1194	CA	THR	A	160	17.994	-1.618	22.237	1.00	20.69	C
ATOM	1195	C	THR	A	160	18.545	-0.252	22.681	1.00	20.96	C

FIG. 4T

ATOM	1196	O	THR	A	160	17.920	0.442	23.487	1.00	20.89	O
ATOM	1197	CB	THR	A	160	17.726	-1.674	20.704	1.00	20.50	C
ATOM	1198	OG1	THR	A	160	18.952	-1.493	19.988	1.00	20.44	O
ATOM	1199	CG2	THR	A	160	16.859	-0.510	20.237	1.00	20.18	C
ATOM	1200	N	ASP	A	161	19.723	0.103	22.164	1.00	21.46	N
ATOM	1201	CA	ASP	A	161	20.374	1.404	22.395	1.00	22.05	C
ATOM	1202	C	ASP	A	161	20.705	1.735	23.855	1.00	22.41	C
ATOM	1203	O	ASP	A	161	20.660	2.899	24.266	1.00	22.54	O
ATOM	1204	CB	ASP	A	161	19.568	2.554	21.769	1.00	22.09	C
ATOM	1205	CG	ASP	A	161	19.421	2.427	20.265	1.00	22.27	C
ATOM	1206	OD1	ASP	A	161	20.299	1.828	19.601	1.00	22.13	O
ATOM	1207	OD2	ASP	A	161	18.448	2.917	19.659	1.00	22.54	O
ATOM	1208	N	PHE	A	162	21.048	0.715	24.633	1.00	22.90	N
ATOM	1209	CA	PHE	A	162	21.460	0.926	26.018	1.00	23.38	C
ATOM	1210	C	PHE	A	162	22.930	1.343	26.094	1.00	23.35	C
ATOM	1211	O	PHE	A	162	23.759	0.877	25.308	1.00	23.15	O
ATOM	1212	CB	PHE	A	162	21.210	-0.333	26.857	1.00	23.55	C
ATOM	1213	CG	PHE	A	162	22.102	-1.486	26.502	1.00	24.06	C
ATOM	1214	CD1	PHE	A	162	23.276	-1.717	27.214	1.00	24.57	C
ATOM	1215	CE1	PHE	A	162	24.108	-2.784	26.888	1.00	25.22	C
ATOM	1216	CZ	PHE	A	162	23.766	-3.634	25.835	1.00	25.31	C
ATOM	1217	CE2	PHE	A	162	22.596	-3.412	25.121	1.00	25.47	C
ATOM	1218	CD2	PHE	A	162	21.771	-2.341	25.457	1.00	24.79	C
ATOM	1219	N	GLY	A	163	23.234	2.228	27.041	1.00	23.34	N
ATOM	1220	CA	GLY	A	163	24.598	2.643	27.317	1.00	23.63	C
ATOM	1221	C	GLY	A	163	25.268	3.467	26.233	1.00	23.74	C
ATOM	1222	O	GLY	A	163	26.395	3.171	25.832	1.00	23.81	O
ATOM	1223	N	LEU	A	164	24.573	4.497	25.758	1.00	23.77	N
ATOM	1224	CA	LEU	A	164	25.152	5.456	24.824	1.00	23.85	C
ATOM	1225	C	LEU	A	164	25.226	6.833	25.485	1.00	24.12	C
ATOM	1226	O	LEU	A	164	24.213	7.532	25.628	1.00	24.22	O
ATOM	1227	CB	LEU	A	164	24.363	5.506	23.509	1.00	23.82	C
ATOM	1228	CG	LEU	A	164	23.879	4.195	22.869	1.00	23.87	C
ATOM	1229	CD1	LEU	A	164	22.887	4.480	21.757	1.00	24.37	C
ATOM	1230	CD2	LEU	A	164	25.022	3.341	22.340	1.00	24.15	C
ATOM	1231	N	ALA	A	165	26.435	7.193	25.913	1.00	24.18	N
ATOM	1232	CA	ALA	A	165	26.705	8.449	26.610	1.00	24.07	C
ATOM	1233	C	ALA	A	165	28.210	8.711	26.643	1.00	24.11	C
ATOM	1234	O	ALA	A	165	29.013	7.774	26.693	1.00	23.96	O
ATOM	1235	CB	ALA	A	165	26.147	8.406	28.027	1.00	24.03	C
ATOM	1236	N	VAL	A	182	18.270	15.907	25.552	1.00	25.02	N
ATOM	1237	CA	VAL	A	182	17.370	15.974	24.400	1.00	24.71	C
ATOM	1238	C	VAL	A	182	15.981	15.360	24.686	1.00	24.32	C
ATOM	1239	O	VAL	A	182	14.980	16.075	24.583	1.00	24.64	O
ATOM	1240	CB	VAL	A	182	18.017	15.386	23.101	1.00	24.93	C
ATOM	1241	CG1	VAL	A	182	17.059	15.479	21.911	1.00	25.38	C
ATOM	1242	CG2	VAL	A	182	19.324	16.100	22.776	1.00	25.20	C
ATOM	1243	N	PRO	A	183	15.905	14.072	25.056	1.00	23.64	N
ATOM	1244	CA	PRO	A	183	14.607	13.407	25.248	1.00	23.03	C
ATOM	1245	C	PRO	A	183	13.988	13.682	26.623	1.00	22.51	C
ATOM	1246	O	PRO	A	183	13.675	12.744	27.364	1.00	22.55	O
ATOM	1247	CB	PRO	A	183	14.957	11.923	25.098	1.00	23.21	C
ATOM	1248	CG	PRO	A	183	16.372	11.814	25.589	1.00	23.32	C
ATOM	1249	CD	PRO	A	183	17.025	13.147	25.324	1.00	23.47	C
ATOM	1250	N	ILE	A	184	13.801	14.964	26.933	1.00	21.88	N
ATOM	1251	CA	ILE	A	184	13.321	15.430	28.241	1.00	21.08	C
ATOM	1252	C	ILE	A	184	12.059	14.714	28.729	1.00	20.43	C
ATOM	1253	O	ILE	A	184	11.942	14.395	29.913	1.00	20.47	O
ATOM	1254	CB	ILE	A	184	13.095	16.979	28.209	1.00	21.15	C
ATOM	1255	CG1	ILE	A	184	14.378	17.717	27.798	1.00	21.07	C

FIG. 4U

ATOM	1256	CD1	ILE	A	184	15.546	17.598	28.783	1.00	21.24	C
ATOM	1257	CG2	ILE	A	184	12.542	17.506	29.547	1.00	21.12	C
ATOM	1258	N	LYS	A	185	11.136	14.448	27.808	1.00	19.70	N
ATOM	1259	CA	LYS	A	185	9.806	13.925	28.141	1.00	18.98	C
ATOM	1260	C	LYS	A	185	9.784	12.468	28.609	1.00	18.35	C
ATOM	1261	O	LYS	A	185	8.745	11.964	29.043	1.00	18.25	O
ATOM	1262	CB	LYS	A	185	8.858	14.117	26.955	1.00	19.09	C
ATOM	1263	CG	LYS	A	185	8.452	15.565	26.742	1.00	19.08	C
ATOM	1264	CD	LYS	A	185	7.699	15.744	25.449	1.00	19.02	C
ATOM	1265	CE	LYS	A	185	7.606	17.206	25.089	1.00	19.14	C
ATOM	1266	NZ	LYS	A	185	6.468	17.462	24.170	1.00	19.61	N
ATOM	1267	N	TRP	A	186	10.929	11.799	28.515	1.00	17.68	N
ATOM	1268	CA	TRP	A	186	11.071	10.424	28.975	1.00	17.10	C
ATOM	1269	C	TRP	A	186	11.950	10.373	30.220	1.00	17.01	C
ATOM	1270	O	TRP	A	186	11.997	9.358	30.911	1.00	17.17	O
ATOM	1271	CB	TRP	A	186	11.681	9.551	27.874	1.00	16.98	C
ATOM	1272	CG	TRP	A	186	10.709	9.126	26.815	1.00	16.64	C
ATOM	1273	CD1	TRP	A	186	10.019	7.945	26.759	1.00	16.55	C
ATOM	1274	NE1	TRP	A	186	9.222	7.913	25.639	1.00	16.12	N
ATOM	1275	CE2	TRP	A	186	9.386	9.080	24.941	1.00	16.13	C
ATOM	1276	CD2	TRP	A	186	10.321	9.869	25.652	1.00	16.26	C
ATOM	1277	CE3	TRP	A	186	10.664	11.129	25.137	1.00	16.01	C
ATOM	1278	CZ3	TRP	A	186	10.074	11.552	23.945	1.00	15.63	C
ATOM	1279	CH2	TRP	A	186	9.150	10.743	23.267	1.00	15.58	C
ATOM	1280	CZ2	TRP	A	186	8.794	9.507	23.746	1.00	15.70	C
ATOM	1281	N	MET	A	187	12.641	11.475	30.498	1.00	16.65	N
ATOM	1282	CA	MET	A	187	13.620	11.537	31.580	1.00	16.45	C
ATOM	1283	C	MET	A	187	13.000	11.794	32.951	1.00	16.40	C
ATOM	1284	O	MET	A	187	11.997	12.504	33.072	1.00	16.38	O
ATOM	1285	CB	MET	A	187	14.660	12.618	31.290	1.00	16.42	C
ATOM	1286	CG	MET	A	187	15.631	12.269	30.181	1.00	16.96	C
ATOM	1287	SD	MET	A	187	16.550	13.704	29.610	1.00	18.00	S
ATOM	1288	CE	MET	A	187	17.971	12.896	28.891	1.00	18.94	C
ATOM	1289	N	ALA	A	188	13.620	11.212	33.977	1.00	16.07	N
ATOM	1290	CA	ALA	A	188	13.285	11.500	35.366	1.00	15.66	C
ATOM	1291	C	ALA	A	188	13.661	12.942	35.702	1.00	15.57	C
ATOM	1292	O	ALA	A	188	14.498	13.541	35.024	1.00	15.35	O
ATOM	1293	CB	ALA	A	188	13.999	10.530	36.291	1.00	15.72	C
ATOM	1294	N	LEU	A	189	13.043	13.492	36.746	1.00	15.47	N
ATOM	1295	CA	LEU	A	189	13.245	14.892	37.113	1.00	15.43	C
ATOM	1296	C	LEU	A	189	14.690	15.206	37.509	1.00	15.41	C
ATOM	1297	O	LEU	A	189	15.222	16.261	37.154	1.00	15.47	O
ATOM	1298	CB	LEU	A	189	12.274	15.313	38.222	1.00	15.48	C
ATOM	1299	CG	LEU	A	189	12.259	16.799	38.600	1.00	15.39	C
ATOM	1300	CD1	LEU	A	189	11.780	17.679	37.450	1.00	15.25	C
ATOM	1301	CD2	LEU	A	189	11.414	17.018	39.833	1.00	15.13	C
ATOM	1302	N	GLU	A	190	15.320	14.282	38.227	1.00	15.32	N
ATOM	1303	CA	GLU	A	190	16.716	14.434	38.628	1.00	15.39	C
ATOM	1304	C	GLU	A	190	17.683	14.332	37.438	1.00	15.34	C
ATOM	1305	O	GLU	A	190	18.820	14.784	37.524	1.00	15.47	O
ATOM	1306	CB	GLU	A	190	17.076	13.434	39.738	1.00	15.32	C
ATOM	1307	CG	GLU	A	190	17.325	12.007	39.264	1.00	15.72	C
ATOM	1308	CD	GLU	A	190	16.093	11.123	39.314	1.00	15.81	C
ATOM	1309	OE1	GLU	A	190	16.259	9.883	39.274	1.00	16.54	O
ATOM	1310	OE2	GLU	A	190	14.963	11.651	39.390	1.00	15.33	O
ATOM	1311	N	SER	A	191	17.221	13.743	36.336	1.00	15.30	N
ATOM	1312	CA	SER	A	191	18.011	13.653	35.111	1.00	15.37	C
ATOM	1313	C	SER	A	191	17.987	14.961	34.328	1.00	15.40	C
ATOM	1314	O	SER	A	191	18.936	15.278	33.613	1.00	15.60	O
ATOM	1315	CB	SER	A	191	17.508	12.512	34.223	1.00	15.43	C

FIG. 4V

ATOM	1316	OG	SER	A	191	17.990	11.258	34.673	1.00	15.35	O
ATOM	1317	N	ILE	A	192	16.897	15.712	34.465	1.00	15.50	N
ATOM	1318	CA	ILE	A	192	16.714	16.974	33.745	1.00	15.42	C
ATOM	1319	C	ILE	A	192	17.385	18.142	34.469	1.00	15.48	C
ATOM	1320	O	ILE	A	192	17.906	19.058	33.830	1.00	15.40	O
ATOM	1321	CB	ILE	A	192	15.205	17.269	33.531	1.00	15.35	C
ATOM	1322	CG1	ILE	A	192	14.527	16.114	32.790	1.00	14.87	C
ATOM	1323	CD1	ILE	A	192	13.058	15.962	33.108	1.00	15.07	C
ATOM	1324	CG2	ILE	A	192	15.003	18.584	32.773	1.00	15.22	C
ATOM	1325	N	LEU	A	193	17.368	18.100	35.799	1.00	15.57	N
ATOM	1326	CA	LEU	A	193	17.897	19.194	36.611	1.00	15.62	C
ATOM	1327	C	LEU	A	193	19.318	18.948	37.117	1.00	15.80	C
ATOM	1328	O	LEU	A	193	20.109	19.883	37.237	1.00	15.79	O
ATOM	1329	CB	LEU	A	193	16.964	19.494	37.789	1.00	15.41	C
ATOM	1330	CG	LEU	A	193	15.460	19.644	37.532	1.00	15.29	C
ATOM	1331	CD1	LEU	A	193	14.715	19.684	38.856	1.00	14.80	C
ATOM	1332	CD2	LEU	A	193	15.127	20.876	36.684	1.00	14.79	C
ATOM	1333	N	HIS	A	194	19.637	17.692	37.415	1.00	16.06	N
ATOM	1334	CA	HIS	A	194	20.931	17.359	38.007	1.00	16.44	C
ATOM	1335	C	HIS	A	194	21.814	16.561	37.057	1.00	16.42	C
ATOM	1336	O	HIS	A	194	23.015	16.423	37.290	1.00	16.51	O
ATOM	1337	CB	HIS	A	194	20.753	16.589	39.325	1.00	16.44	C
ATOM	1338	CG	HIS	A	194	19.846	17.259	40.313	1.00	16.71	C
ATOM	1339	ND1	HIS	A	194	19.198	16.565	41.312	1.00	16.78	N
ATOM	1340	CE1	HIS	A	194	18.471	17.404	42.028	1.00	16.92	C
ATOM	1341	NE2	HIS	A	194	18.627	18.618	41.534	1.00	17.02	N
ATOM	1342	CD2	HIS	A	194	19.485	18.557	40.463	1.00	16.68	C
ATOM	1343	N	ARG	A	195	21.209	16.047	35.987	1.00	16.63	N
ATOM	1344	CA	ARG	A	195	21.875	15.142	35.048	1.00	16.70	C
ATOM	1345	C	ARG	A	195	22.338	13.858	35.745	1.00	16.67	C
ATOM	1346	O	ARG	A	195	23.431	13.349	35.479	1.00	16.82	O
ATOM	1347	CB	ARG	A	195	23.040	15.841	34.331	1.00	17.00	C
ATOM	1348	CG	ARG	A	195	22.645	17.073	33.533	1.00	17.15	C
ATOM	1349	CD	ARG	A	195	23.749	17.597	32.635	1.00	18.04	C
ATOM	1350	NE	ARG	A	195	23.459	18.939	32.135	1.00	18.55	N
ATOM	1351	CZ	ARG	A	195	24.374	19.790	31.682	1.00	18.89	C
ATOM	1352	NH1	ARG	A	195	24.002	20.990	31.253	1.00	19.08	N
ATOM	1353	NH2	ARG	A	195	25.659	19.451	31.655	1.00	18.55	N
ATOM	1354	N	ILE	A	196	21.494	13.350	36.642	1.00	16.52	N
ATOM	1355	CA	ILE	A	196	21.760	12.109	37.365	1.00	16.40	C
ATOM	1356	C	ILE	A	196	21.037	10.941	36.688	1.00	16.40	C
ATOM	1357	O	ILE	A	196	19.845	11.036	36.374	1.00	16.50	O
ATOM	1358	CB	ILE	A	196	21.337	12.250	38.850	1.00	16.44	C
ATOM	1359	CG1	ILE	A	196	22.331	13.144	39.602	1.00	16.56	C
ATOM	1360	CD1	ILE	A	196	21.887	13.546	41.005	1.00	17.00	C
ATOM	1361	CG2	ILE	A	196	21.213	10.877	39.525	1.00	16.41	C
ATOM	1362	N	TYR	A	197	21.764	9.847	36.463	1.00	16.06	N
ATOM	1363	CA	TYR	A	197	21.202	8.665	35.818	1.00	15.94	C
ATOM	1364	C	TYR	A	197	21.468	7.388	36.609	1.00	15.95	C
ATOM	1365	O	TYR	A	197	22.607	6.919	36.691	1.00	16.09	O
ATOM	1366	CB	TYR	A	197	21.737	8.524	34.393	1.00	15.99	C
ATOM	1367	CG	TYR	A	197	21.366	9.667	33.478	1.00	16.10	C
ATOM	1368	CD1	TYR	A	197	20.149	9.671	32.795	1.00	16.35	C
ATOM	1369	CE1	TYR	A	197	19.806	10.720	31.944	1.00	16.43	C
ATOM	1370	CZ	TYR	A	197	20.687	11.776	31.777	1.00	16.45	C
ATOM	1371	OH	TYR	A	197	20.354	12.814	30.947	1.00	17.09	O
ATOM	1372	CE2	TYR	A	197	21.899	11.796	32.446	1.00	16.39	C
ATOM	1373	CD2	TYR	A	197	22.232	10.744	33.292	1.00	16.30	C
ATOM	1374	N	THR	A	198	20.407	6.836	37.194	1.00	15.84	N
ATOM	1375	CA	THR	A	198	20.496	5.592	37.956	1.00	15.92	C

FIG. 4W

ATOM	1376	C	THR	A	198	19.527	4.554	37.388	1.00	16.16	C
ATOM	1377	O	THR	A	198	18.961	4.750	36.310	1.00	16.34	O
ATOM	1378	CB	THR	A	198	20.221	5.833	39.467	1.00	15.89	C
ATOM	1379	OG1	THR	A	198	18.904	6.370	39.643	1.00	16.16	O
ATOM	1380	CG2	THR	A	198	21.138	6.919	40.036	1.00	15.36	C
ATOM	1381	N	HIS	A	199	19.344	3.448	38.105	1.00	16.11	N
ATOM	1382	CA	HIS	A	199	18.382	2.430	37.694	1.00	16.10	C
ATOM	1383	C	HIS	A	199	16.950	2.884	37.976	1.00	15.96	C
ATOM	1384	O	HIS	A	199	16.007	2.427	37.328	1.00	16.01	O
ATOM	1385	CB	HIS	A	199	18.685	1.089	38.368	1.00	16.16	C
ATOM	1386	CG	HIS	A	199	20.016	0.514	37.995	1.00	16.30	C
ATOM	1387	ND1	HIS	A	199	21.010	0.274	38.919	1.00	16.50	N
ATOM	1388	CE1	HIS	A	199	22.068	-0.229	38.307	1.00	16.31	C
ATOM	1389	NE2	HIS	A	199	21.797	-0.321	37.017	1.00	16.44	N
ATOM	1390	CD2	HIS	A	199	20.522	0.140	36.796	1.00	16.43	C
ATOM	1391	N	GLN	A	200	16.803	3.794	38.940	1.00	15.71	N
ATOM	1392	CA	GLN	A	200	15.511	4.398	39.266	1.00	15.24	C
ATOM	1393	C	GLN	A	200	15.136	5.503	38.277	1.00	14.88	C
ATOM	1394	O	GLN	A	200	13.955	5.817	38.101	1.00	14.65	O
ATOM	1395	CB	GLN	A	200	15.508	4.931	40.701	1.00	15.07	C
ATOM	1396	CG	GLN	A	200	15.663	3.852	41.776	1.00	15.30	C
ATOM	1397	CD	GLN	A	200	14.678	2.704	41.621	1.00	15.16	C
ATOM	1398	OE1	GLN	A	200	15.028	1.652	41.091	1.00	15.03	O
ATOM	1399	NE2	GLN	A	200	13.447	2.904	42.082	1.00	15.34	N
ATOM	1400	N	SER	A	201	16.147	6.087	37.640	1.00	14.65	N
ATOM	1401	CA	SER	A	201	15.943	7.005	36.520	1.00	14.61	C
ATOM	1402	C	SER	A	201	15.288	6.270	35.351	1.00	14.26	C
ATOM	1403	O	SER	A	201	14.387	6.805	34.704	1.00	14.07	O
ATOM	1404	CB	SER	A	201	17.278	7.598	36.063	1.00	14.61	C
ATOM	1405	OG	SER	A	201	17.368	8.967	36.397	1.00	15.71	O
ATOM	1406	N	ASP	A	202	15.756	5.045	35.096	1.00	13.85	N
ATOM	1407	CA	ASP	A	202	15.247	4.200	34.018	1.00	13.46	C
ATOM	1408	C	ASP	A	202	13.810	3.751	34.273	1.00	13.21	C
ATOM	1409	O	ASP	A	202	13.037	3.587	33.328	1.00	13.50	O
ATOM	1410	CB	ASP	A	202	16.142	2.968	33.826	1.00	13.60	C
ATOM	1411	CG	ASP	A	202	17.440	3.281	33.091	1.00	13.51	C
ATOM	1412	OD1	ASP	A	202	18.416	2.520	33.276	1.00	13.11	O
ATOM	1413	OD2	ASP	A	202	17.584	4.249	32.311	1.00	13.33	O
ATOM	1414	N	VAL	A	203	13.461	3.546	35.544	1.00	12.65	N
ATOM	1415	CA	VAL	A	203	12.096	3.173	35.928	1.00	12.05	C
ATOM	1416	C	VAL	A	203	11.087	4.230	35.460	1.00	11.80	C
ATOM	1417	O	VAL	A	203	10.033	3.887	34.918	1.00	11.87	O
ATOM	1418	CB	VAL	A	203	11.967	2.907	37.460	1.00	11.93	C
ATOM	1419	CG1	VAL	A	203	10.507	2.757	37.875	1.00	11.84	C
ATOM	1420	CG2	VAL	A	203	12.738	1.656	37.857	1.00	11.42	C
ATOM	1421	N	TRP	A	204	11.427	5.504	35.658	1.00	11.36	N
ATOM	1422	CA	TRP	A	204	10.624	6.625	35.165	1.00	11.08	C
ATOM	1423	C	TRP	A	204	10.350	6.487	33.668	1.00	10.86	C
ATOM	1424	O	TRP	A	204	9.193	6.504	33.246	1.00	10.60	O
ATOM	1425	CB	TRP	A	204	11.321	7.959	35.461	1.00	11.08	C
ATOM	1426	CG	TRP	A	204	10.499	9.187	35.142	1.00	11.50	C
ATOM	1427	CD1	TRP	A	204	10.020	9.567	33.918	1.00	11.52	C
ATOM	1428	NE1	TRP	A	204	9.323	10.746	34.025	1.00	11.48	N
ATOM	1429	CE2	TRP	A	204	9.346	11.162	35.329	1.00	11.15	C
ATOM	1430	CD2	TRP	A	204	10.079	10.204	36.063	1.00	11.66	C
ATOM	1431	CE3	TRP	A	204	10.248	10.405	37.442	1.00	11.70	C
ATOM	1432	CZ3	TRP	A	204	9.692	11.529	38.028	1.00	11.60	C
ATOM	1433	CH2	TRP	A	204	8.967	12.459	37.268	1.00	11.90	C
ATOM	1434	CZ2	TRP	A	204	8.785	12.293	35.920	1.00	11.61	C
ATOM	1435	N	SER	A	205	11.417	6.339	32.883	1.00	10.60	N

FIG. 4X



ATOM	1436	CA	SER	A	205	11.319	6.168	31.432	1.00	10.78	C
ATOM	1437	C	SER	A	205	10.478	4.958	31.037	1.00	10.87	C
ATOM	1438	O	SER	A	205	9.708	5.024	30.076	1.00	10.84	O
ATOM	1439	CB	SER	A	205	12.709	6.074	30.807	1.00	10.83	C
ATOM	1440	OG	SER	A	205	13.424	7.284	30.992	1.00	10.86	O
ATOM	1441	N	TYR	A	206	10.631	3.866	31.787	1.00	11.00	N
ATOM	1442	CA	TYR	A	206	9.801	2.674	31.637	1.00	11.09	C
ATOM	1443	C	TYR	A	206	8.319	3.019	31.810	1.00	11.36	C
ATOM	1444	O	TYR	A	206	7.483	2.582	31.020	1.00	11.57	O
ATOM	1445	CB	TYR	A	206	10.245	1.594	32.633	1.00	11.20	C
ATOM	1446	CG	TYR	A	206	9.383	0.347	32.673	1.00	10.90	C
ATOM	1447	CD1	TYR	A	206	8.330	0.236	33.579	1.00	11.02	C
ATOM	1448	CE1	TYR	A	206	7.535	-0.910	33.627	1.00	11.16	C
ATOM	1449	CZ	TYR	A	206	7.802	-1.964	32.772	1.00	10.74	C
ATOM	1450	OH	TYR	A	206	7.016	-3.086	32.830	1.00	10.40	O
ATOM	1451	CE2	TYR	A	206	8.849	-1.886	31.863	1.00	10.78	C
ATOM	1452	CD2	TYR	A	206	9.635	-0.731	31.821	1.00	11.05	C
ATOM	1453	N	GLY	A	207	8.003	3.811	32.834	1.00	11.29	N
ATOM	1454	CA	GLY	A	207	6.649	4.296	33.047	1.00	11.28	C
ATOM	1455	C	GLY	A	207	6.083	5.045	31.851	1.00	11.14	C
ATOM	1456	O	GLY	A	207	4.928	4.847	31.476	1.00	11.25	O
ATOM	1457	N	VAL	A	208	6.904	5.904	31.253	1.00	11.19	N
ATOM	1458	CA	VAL	A	208	6.533	6.653	30.050	1.00	11.14	C
ATOM	1459	C	VAL	A	208	6.389	5.721	28.839	1.00	11.08	C
ATOM	1460	O	VAL	A	208	5.473	5.884	28.030	1.00	11.10	O
ATOM	1461	CB	VAL	A	208	7.555	7.782	29.747	1.00	11.13	C
ATOM	1462	CG1	VAL	A	208	7.124	8.606	28.544	1.00	11.24	C
ATOM	1463	CG2	VAL	A	208	7.737	8.685	30.966	1.00	10.97	C
ATOM	1464	N	THR	A	209	7.294	4.746	28.736	1.00	10.89	N
ATOM	1465	CA	THR	A	209	7.265	3.735	27.679	1.00	10.48	C
ATOM	1466	C	THR	A	209	5.965	2.929	27.707	1.00	10.72	C
ATOM	1467	O	THR	A	209	5.346	2.711	26.664	1.00	10.81	O
ATOM	1468	CB	THR	A	209	8.490	2.801	27.804	1.00	10.40	C
ATOM	1469	OG1	THR	A	209	9.691	3.570	27.675	1.00	9.30	O
ATOM	1470	CG2	THR	A	209	8.560	1.821	26.636	1.00	9.93	C
ATOM	1471	N	VAL	A	210	5.560	2.497	28.902	1.00	10.80	N
ATOM	1472	CA	VAL	A	210	4.296	1.788	29.099	1.00	10.97	C
ATOM	1473	C	VAL	A	210	3.113	2.674	28.683	1.00	11.27	C
ATOM	1474	O	VAL	A	210	2.181	2.207	28.023	1.00	11.29	O
ATOM	1475	CB	VAL	A	210	4.137	1.284	30.568	1.00	10.87	C
ATOM	1476	CG1	VAL	A	210	2.769	0.644	30.794	1.00	10.41	C
ATOM	1477	CG2	VAL	A	210	5.237	0.286	30.920	1.00	11.02	C
ATOM	1478	N	TRP	A	211	3.168	3.952	29.052	1.00	11.64	N
ATOM	1479	CA	TRP	A	211	2.135	4.911	28.667	1.00	12.07	C
ATOM	1480	C	TRP	A	211	1.984	4.992	27.149	1.00	12.36	C
ATOM	1481	O	TRP	A	211	0.867	5.090	26.644	1.00	12.54	O
ATOM	1482	CB	TRP	A	211	2.429	6.297	29.246	1.00	12.10	C
ATOM	1483	CG	TRP	A	211	1.333	7.295	29.002	1.00	12.17	C
ATOM	1484	CD1	TRP	A	211	0.244	7.529	29.795	1.00	12.20	C
ATOM	1485	NE1	TRP	A	211	-0.540	8.516	29.245	1.00	12.12	N
ATOM	1486	CE2	TRP	A	211	0.032	8.942	28.076	1.00	11.77	C
ATOM	1487	CD2	TRP	A	211	1.215	8.193	27.889	1.00	12.01	C
ATOM	1488	CE3	TRP	A	211	1.992	8.442	26.746	1.00	11.94	C
ATOM	1489	CZ3	TRP	A	211	1.568	9.416	25.844	1.00	11.61	C
ATOM	1490	CH2	TRP	A	211	0.386	10.139	26.063	1.00	11.19	C
ATOM	1491	CZ2	TRP	A	211	-0.392	9.919	27.169	1.00	11.54	C
ATOM	1492	N	GLU	A	212	3.108	4.948	26.434	1.00	12.58	N
ATOM	1493	CA	GLU	A	212	3.110	4.967	24.972	1.00	12.64	C
ATOM	1494	C	GLU	A	212	2.363	3.768	24.399	1.00	12.97	C
ATOM	1495	O	GLU	A	212	1.582	3.912	23.462	1.00	13.32	O

FIG. 4Y

ATOM	1496	CB	GLU	A	212	4.538	4.967	24.430	1.00	12.50	C
ATOM	1497	CG	GLU	A	212	5.332	6.233	24.688	1.00	11.97	C
ATOM	1498	CD	GLU	A	212	6.702	6.167	24.055	1.00	11.43	C
ATOM	1499	OE1	GLU	A	212	6.835	6.581	22.883	1.00	11.08	O
ATOM	1500	OE2	GLU	A	212	7.641	5.680	24.722	1.00	11.03	O
ATOM	1501	N	LEU	A	213	2.609	2.590	24.967	1.00	13.28	N
ATOM	1502	CA	LEU	A	213	1.984	1.354	24.499	1.00	13.71	C
ATOM	1503	C	LEU	A	213	0.473	1.340	24.751	1.00	14.03	C
ATOM	1504	O	LEU	A	213	-0.310	1.016	23.852	1.00	14.12	O
ATOM	1505	CB	LEU	A	213	2.652	0.129	25.140	1.00	13.65	C
ATOM	1506	CG	LEU	A	213	4.172	-0.042	24.981	1.00	13.61	C
ATOM	1507	CD1	LEU	A	213	4.650	-1.317	25.663	1.00	13.24	C
ATOM	1508	CD2	LEU	A	213	4.599	-0.024	23.514	1.00	13.51	C
ATOM	1509	N	MET	A	214	0.078	1.710	25.968	1.00	14.19	N
ATOM	1510	CA	MET	A	214	-1.322	1.705	26.382	1.00	14.41	C
ATOM	1511	C	MET	A	214	-2.155	2.757	25.651	1.00	14.65	C
ATOM	1512	O	MET	A	214	-3.373	2.606	25.526	1.00	14.87	O
ATOM	1513	CB	MET	A	214	-1.441	1.901	27.899	1.00	14.50	C
ATOM	1514	CG	MET	A	214	-0.707	0.864	28.744	1.00	14.52	C
ATOM	1515	SD	MET	A	214	-1.317	-0.822	28.524	1.00	14.52	S
ATOM	1516	CE	MET	A	214	-0.293	-1.699	29.695	1.00	14.80	C
ATOM	1517	N	THR	A	215	-1.503	3.817	25.178	1.00	14.76	N
ATOM	1518	CA	THR	A	215	-2.176	4.841	24.375	1.00	15.24	C
ATOM	1519	C	THR	A	215	-2.098	4.542	22.878	1.00	15.36	C
ATOM	1520	O	THR	A	215	-2.676	5.266	22.069	1.00	15.43	O
ATOM	1521	CB	THR	A	215	-1.605	6.252	24.654	1.00	15.24	C
ATOM	1522	OG1	THR	A	215	-0.171	6.215	24.620	1.00	15.77	O
ATOM	1523	CG2	THR	A	215	-1.931	6.709	26.067	1.00	15.02	C
ATOM	1524	N	PHE	A	216	-1.386	3.471	22.528	1.00	15.82	N
ATOM	1525	CA	PHE	A	216	-1.163	3.047	21.138	1.00	16.27	C
ATOM	1526	C	PHE	A	216	-0.301	4.028	20.340	1.00	16.46	C
ATOM	1527	O	PHE	A	216	-0.621	4.372	19.197	1.00	16.56	O
ATOM	1528	CB	PHE	A	216	-2.483	2.736	20.409	1.00	16.29	C
ATOM	1529	CG	PHE	A	216	-3.254	1.588	21.004	1.00	16.75	C
ATOM	1530	CD1	PHE	A	216	-2.795	0.279	20.876	1.00	16.68	C
ATOM	1531	CE1	PHE	A	216	-3.508	-0.786	21.429	1.00	16.75	C
ATOM	1532	CZ	PHE	A	216	-4.692	-0.546	22.117	1.00	16.83	C
ATOM	1533	CE2	PHE	A	216	-5.162	0.758	22.252	1.00	16.98	C
ATOM	1534	CD2	PHE	A	216	-4.441	1.818	21.696	1.00	16.92	C
ATOM	1535	N	GLY	A	217	0.788	4.474	20.961	1.00	16.52	N
ATOM	1536	CA	GLY	A	217	1.786	5.292	20.297	1.00	16.86	C
ATOM	1537	C	GLY	A	217	1.638	6.794	20.443	1.00	17.27	C
ATOM	1538	O	GLY	A	217	2.250	7.548	19.682	1.00	17.35	O
ATOM	1539	N	SER	A	218	0.840	7.234	21.412	1.00	17.71	N
ATOM	1540	CA	SER	A	218	0.640	8.664	21.644	1.00	18.33	C
ATOM	1541	C	SER	A	218	1.924	9.346	22.106	1.00	18.70	C
ATOM	1542	O	SER	A	218	2.709	8.775	22.868	1.00	18.74	O
ATOM	1543	CB	SER	A	218	-0.480	8.913	22.656	1.00	18.30	C
ATOM	1544	OG	SER	A	218	-1.756	8.825	22.041	1.00	18.54	O
ATOM	1545	N	LYS	A	219	2.131	10.566	21.622	1.00	19.16	N
ATOM	1546	CA	LYS	A	219	3.287	11.363	21.999	1.00	19.67	C
ATOM	1547	C	LYS	A	219	3.065	11.969	23.385	1.00	19.95	C
ATOM	1548	O	LYS	A	219	2.010	12.557	23.643	1.00	19.87	O
ATOM	1549	CB	LYS	A	219	3.540	12.455	20.959	1.00	19.75	C
ATOM	1550	CG	LYS	A	219	4.225	11.950	19.704	1.00	20.07	C
ATOM	1551	CD	LYS	A	219	4.205	12.991	18.598	1.00	21.12	C
ATOM	1552	CE	LYS	A	219	4.475	12.355	17.239	1.00	21.85	C
ATOM	1553	NZ	LYS	A	219	5.854	11.786	17.141	1.00	22.77	N
ATOM	1554	N	PRO	A	220	4.048	11.821	24.276	1.00	20.25	N
ATOM	1555	CA	PRO	A	220	3.914	12.303	25.659	1.00	20.59	C

FIG. 4Z

ATOM	1556	C	PRO	A	220	3.969	13.826	25.743	1.00	20.84	C
ATOM	1557	O	PRO	A	220	4.730	14.445	24.992	1.00	20.97	O
ATOM	1558	CB	PRO	A	220	5.115	11.671	26.373	1.00	20.53	C
ATOM	1559	CG	PRO	A	220	6.122	11.431	25.294	1.00	20.45	C
ATOM	1560	CD	PRO	A	220	5.358	11.190	24.028	1.00	19.99	C
ATOM	1561	N	TYR	A	221	3.164	14.401	26.638	1.00	21.13	N
ATOM	1562	CA	TYR	A	221	3.043	15.855	26.825	1.00	21.55	C
ATOM	1563	C	TYR	A	221	3.050	16.638	25.509	1.00	21.95	C
ATOM	1564	O	TYR	A	221	3.931	17.472	25.284	1.00	21.96	O
ATOM	1565	CB	TYR	A	221	4.147	16.398	27.740	1.00	21.40	C
ATOM	1566	CG	TYR	A	221	4.495	15.553	28.944	1.00	21.04	C
ATOM	1567	CD1	TYR	A	221	3.767	15.655	30.128	1.00	20.62	C
ATOM	1568	CE1	TYR	A	221	4.097	14.886	31.241	1.00	20.61	C
ATOM	1569	CZ	TYR	A	221	5.176	14.018	31.178	1.00	20.46	C
ATOM	1570	OH	TYR	A	221	5.512	13.258	32.272	1.00	20.34	O
ATOM	1571	CE2	TYR	A	221	5.916	13.905	30.017	1.00	20.67	C
ATOM	1572	CD2	TYR	A	221	5.578	14.677	28.909	1.00	20.98	C
ATOM	1573	N	ASP	A	222	2.068	16.372	24.652	1.00	22.48	N
ATOM	1574	CA	ASP	A	222	2.032	16.957	23.309	1.00	23.20	C
ATOM	1575	C	ASP	A	222	2.046	18.493	23.262	1.00	23.22	C
ATOM	1576	O	ASP	A	222	2.841	19.085	22.527	1.00	23.57	O
ATOM	1577	CB	ASP	A	222	0.847	16.413	22.506	1.00	23.36	C
ATOM	1578	CG	ASP	A	222	1.030	16.595	21.016	1.00	23.98	C
ATOM	1579	OD1	ASP	A	222	0.866	17.734	20.528	1.00	24.37	O
ATOM	1580	OD2	ASP	A	222	1.348	15.659	20.253	1.00	25.14	O
ATOM	1581	N	GLY	A	223	1.173	19.130	24.036	1.00	23.04	N
ATOM	1582	CA	GLY	A	223	1.078	20.581	24.038	1.00	23.08	C
ATOM	1583	C	GLY	A	223	2.113	21.293	24.894	1.00	22.99	C
ATOM	1584	O	GLY	A	223	2.182	22.525	24.894	1.00	22.94	O
ATOM	1585	N	ILE	A	224	2.915	20.518	25.621	1.00	22.70	N
ATOM	1586	CA	ILE	A	224	3.926	21.064	26.519	1.00	22.37	C
ATOM	1587	C	ILE	A	224	5.310	20.965	25.879	1.00	22.21	C
ATOM	1588	O	ILE	A	224	5.753	19.871	25.528	1.00	22.31	O
ATOM	1589	CB	ILE	A	224	3.913	20.328	27.896	1.00	22.38	C
ATOM	1590	CG1	ILE	A	224	2.506	19.811	28.262	1.00	22.35	C
ATOM	1591	CD1	ILE	A	224	1.467	20.885	28.597	1.00	22.43	C
ATOM	1592	CG2	ILE	A	224	4.521	21.206	28.995	1.00	22.12	C
ATOM	1593	N	PRO	A	225	5.986	22.101	25.709	1.00	21.92	N
ATOM	1594	CA	PRO	A	225	7.373	22.096	25.227	1.00	21.76	C
ATOM	1595	C	PRO	A	225	8.339	21.573	26.293	1.00	21.65	C
ATOM	1596	O	PRO	A	225	8.026	21.623	27.484	1.00	21.75	O
ATOM	1597	CB	PRO	A	225	7.649	23.571	24.906	1.00	21.74	C
ATOM	1598	CG	PRO	A	225	6.652	24.350	25.681	1.00	21.88	C
ATOM	1599	CD	PRO	A	225	5.475	23.464	25.942	1.00	21.78	C
ATOM	1600	N	ALA	A	226	9.493	21.076	25.857	1.00	21.56	N
ATOM	1601	CA	ALA	A	226	10.479	20.464	26.750	1.00	21.30	C
ATOM	1602	C	ALA	A	226	10.953	21.395	27.867	1.00	21.14	C
ATOM	1603	O	ALA	A	226	11.230	20.943	28.983	1.00	21.18	O
ATOM	1604	CB	ALA	A	226	11.665	19.943	25.949	1.00	21.35	C
ATOM	1605	N	SER	A	227	11.031	22.690	27.564	1.00	20.82	N
ATOM	1606	CA	SER	A	227	11.462	23.698	28.532	1.00	20.42	C
ATOM	1607	C	SER	A	227	10.447	23.936	29.653	1.00	20.22	C
ATOM	1608	O	SER	A	227	10.774	24.552	30.667	1.00	20.39	O
ATOM	1609	CB	SER	A	227	11.810	25.017	27.825	1.00	20.47	C
ATOM	1610	OG	SER	A	227	10.706	25.543	27.106	1.00	20.20	O
ATOM	1611	N	GLU	A	228	9.228	23.432	29.472	1.00	20.06	N
ATOM	1612	CA	GLU	A	228	8.161	23.573	30.467	1.00	19.96	C
ATOM	1613	C	GLU	A	228	7.863	22.284	31.249	1.00	19.60	C
ATOM	1614	O	GLU	A	228	7.043	22.291	32.170	1.00	19.60	O
ATOM	1615	CB	GLU	A	228	6.876	24.084	29.803	1.00	20.13	C

FIG. 4AA

ATOM	1616	CG	GLU	A	228	7.016	25.425	29.098	1.00	20.70	C
ATOM	1617	CD	GLU	A	228	7.139	26.594	30.057	1.00	21.48	C
ATOM	1618	OE1	GLU	A	228	6.474	26.579	31.114	1.00	21.87	O
ATOM	1619	OE2	GLU	A	228	7.903	27.534	29.748	1.00	22.07	O
ATOM	1620	N	ILE	A	229	8.536	21.193	30.885	1.00	19.27	N
ATOM	1621	CA	ILE	A	229	8.304	19.875	31.486	1.00	19.00	C
ATOM	1622	C	ILE	A	229	8.592	19.813	32.997	1.00	18.87	C
ATOM	1623	O	ILE	A	229	7.751	19.344	33.767	1.00	18.73	O
ATOM	1624	CB	ILE	A	229	9.094	18.772	30.711	1.00	18.98	C
ATOM	1625	CG1	ILE	A	229	8.512	18.560	29.303	1.00	18.73	C
ATOM	1626	CD1	ILE	A	229	7.059	18.094	29.254	1.00	17.92	C
ATOM	1627	CG2	ILE	A	229	9.154	17.462	31.502	1.00	18.78	C
ATOM	1628	N	SER	A	230	9.764	20.291	33.414	1.00	18.76	N
ATOM	1629	CA	SER	A	230	10.130	20.307	34.836	1.00	18.71	C
ATOM	1630	C	SER	A	230	9.120	21.081	35.681	1.00	18.57	C
ATOM	1631	O	SER	A	230	8.848	20.706	36.821	1.00	18.28	O
ATOM	1632	CB	SER	A	230	11.543	20.862	35.045	1.00	18.69	C
ATOM	1633	OG	SER	A	230	11.636	22.209	34.616	1.00	19.01	O
ATOM	1634	N	SER	A	231	8.560	22.145	35.106	1.00	18.63	N
ATOM	1635	CA	SER	A	231	7.543	22.957	35.774	1.00	18.67	C
ATOM	1636	C	SER	A	231	6.243	22.190	36.022	1.00	18.74	C
ATOM	1637	O	SER	A	231	5.755	22.151	37.152	1.00	19.01	O
ATOM	1638	CB	SER	A	231	7.262	24.241	34.987	1.00	18.56	C
ATOM	1639	OG	SER	A	231	6.154	24.935	35.537	1.00	18.36	O
ATOM	1640	N	ILE	A	232	5.689	21.577	34.977	1.00	18.72	N
ATOM	1641	CA	ILE	A	232	4.453	20.805	35.129	1.00	18.83	C
ATOM	1642	C	ILE	A	232	4.616	19.598	36.072	1.00	18.81	C
ATOM	1643	O	ILE	A	232	3.690	19.259	36.805	1.00	18.86	O
ATOM	1644	CB	ILE	A	232	3.820	20.398	33.747	1.00	18.91	C
ATOM	1645	CG1	ILE	A	232	4.626	19.301	33.041	1.00	18.56	C
ATOM	1646	CD1	ILE	A	232	3.938	17.960	33.036	1.00	17.74	C
ATOM	1647	CG2	ILE	A	232	3.645	21.613	32.835	1.00	18.82	C
ATOM	1648	N	LEU	A	233	5.797	18.978	36.067	1.00	18.80	N
ATOM	1649	CA	LEU	A	233	6.066	17.816	36.920	1.00	18.77	C
ATOM	1650	C	LEU	A	233	6.152	18.182	38.402	1.00	18.86	C
ATOM	1651	O	LEU	A	233	5.641	17.452	39.253	1.00	18.77	O
ATOM	1652	CB	LEU	A	233	7.342	17.087	36.480	1.00	18.68	C
ATOM	1653	CG	LEU	A	233	7.376	16.345	35.140	1.00	18.50	C
ATOM	1654	CD1	LEU	A	233	8.783	15.844	34.869	1.00	18.03	C
ATOM	1655	CD2	LEU	A	233	6.374	15.193	35.077	1.00	18.39	C
ATOM	1656	N	GLU	A	234	6.792	19.314	38.700	1.00	19.10	N
ATOM	1657	CA	GLU	A	234	6.897	19.812	40.077	1.00	19.27	C
ATOM	1658	C	GLU	A	234	5.551	20.344	40.582	1.00	19.12	C
ATOM	1659	O	GLU	A	234	5.321	20.430	41.791	1.00	18.98	O
ATOM	1660	CB	GLU	A	234	7.990	20.888	40.207	1.00	19.22	C
ATOM	1661	CG	GLU	A	234	9.411	20.394	39.944	1.00	19.78	C
ATOM	1662	CD	GLU	A	234	10.129	19.880	41.185	1.00	20.57	C
ATOM	1663	OE1	GLU	A	234	11.362	20.076	41.279	1.00	20.95	O
ATOM	1664	OE2	GLU	A	234	9.479	19.267	42.060	1.00	20.64	O
ATOM	1665	N	LYS	A	235	4.668	20.687	39.646	1.00	19.06	N
ATOM	1666	CA	LYS	A	235	3.316	21.136	39.966	1.00	18.94	C
ATOM	1667	C	LYS	A	235	2.381	19.963	40.271	1.00	18.93	C
ATOM	1668	O	LYS	A	235	1.229	20.164	40.668	1.00	18.95	O
ATOM	1669	CB	LYS	A	235	2.755	21.984	38.823	1.00	18.92	C
ATOM	1670	CG	LYS	A	235	2.836	23.482	39.069	1.00	18.70	C
ATOM	1671	CD	LYS	A	235	3.254	24.227	37.818	1.00	18.66	C
ATOM	1672	CE	LYS	A	235	2.903	25.703	37.907	1.00	19.05	C
ATOM	1673	NZ	LYS	A	235	1.961	26.119	36.830	1.00	19.31	N
ATOM	1674	N	GLY	A	236	2.885	18.744	40.090	1.00	18.81	N
ATOM	1675	CA	GLY	A	236	2.120	17.537	40.348	1.00	18.41	C

FIG. 4BB

ATOM	1676	C	GLY	A	236	1.517	16.921	39.100	1.00	18.28	C
ATOM	1677	O	GLY	A	236	0.925	15.846	39.164	1.00	18.52	O
ATOM	1678	N	GLU	A	237	1.668	17.599	37.965	1.00	18.11	N
ATOM	1679	CA	GLU	A	237	1.069	17.151	36.713	1.00	17.92	C
ATOM	1680	C	GLU	A	237	1.799	15.953	36.116	1.00	17.69	C
ATOM	1681	O	GLU	A	237	3.032	15.945	36.001	1.00	17.32	O
ATOM	1682	CB	GLU	A	237	1.020	18.287	35.698	1.00	18.19	C
ATOM	1683	CG	GLU	A	237	-0.243	19.122	35.762	1.00	18.82	C
ATOM	1684	CD	GLU	A	237	-0.084	20.450	35.057	1.00	19.23	C
ATOM	1685	OE1	GLU	A	237	-0.016	20.455	33.808	1.00	19.67	O
ATOM	1686	OE2	GLU	A	237	-0.020	21.483	35.754	1.00	19.42	O
ATOM	1687	N	ARG	A	238	1.014	14.947	35.739	1.00	17.15	N
ATOM	1688	CA	ARG	A	238	1.535	13.720	35.157	1.00	16.62	C
ATOM	1689	C	ARG	A	238	0.815	13.418	33.848	1.00	16.48	C
ATOM	1690	O	ARG	A	238	-0.066	14.171	33.431	1.00	16.46	O
ATOM	1691	CB	ARG	A	238	1.384	12.559	36.147	1.00	16.54	C
ATOM	1692	CG	ARG	A	238	2.203	12.700	37.431	1.00	16.13	C
ATOM	1693	CD	ARG	A	238	3.705	12.514	37.243	1.00	15.74	C
ATOM	1694	NE	ARG	A	238	4.444	12.574	38.504	1.00	15.07	N
ATOM	1695	CZ	ARG	A	238	4.911	13.692	39.055	1.00	14.75	C
ATOM	1696	NH1	ARG	A	238	4.720	14.868	38.470	1.00	14.70	N
ATOM	1697	NH2	ARG	A	238	5.572	13.636	40.200	1.00	14.39	N
ATOM	1698	N	LEU	A	239	1.201	12.323	33.196	1.00	16.31	N
ATOM	1699	CA	LEU	A	239	0.558	11.895	31.957	1.00	16.06	C
ATOM	1700	C	LEU	A	239	-0.842	11.341	32.235	1.00	15.95	C
ATOM	1701	O	LEU	A	239	-1.054	10.670	33.245	1.00	15.97	O
ATOM	1702	CB	LEU	A	239	1.427	10.862	31.226	1.00	16.07	C
ATOM	1703	CG	LEU	A	239	2.710	11.394	30.570	1.00	15.69	C
ATOM	1704	CD1	LEU	A	239	3.752	10.297	30.453	1.00	15.56	C
ATOM	1705	CD2	LEU	A	239	2.437	12.016	29.207	1.00	15.32	C
ATOM	1706	N	PRO	A	240	-1.797	11.632	31.350	1.00	15.91	N
ATOM	1707	CA	PRO	A	240	-3.195	11.232	31.563	1.00	15.92	C
ATOM	1708	C	PRO	A	240	-3.401	9.716	31.537	1.00	16.15	C
ATOM	1709	O	PRO	A	240	-2.642	8.998	30.882	1.00	16.12	O
ATOM	1710	CB	PRO	A	240	-3.928	11.889	30.390	1.00	15.96	C
ATOM	1711	CG	PRO	A	240	-2.887	12.080	29.343	1.00	15.71	C
ATOM	1712	CD	PRO	A	240	-1.619	12.363	30.081	1.00	15.78	C
ATOM	1713	N	GLN	A	241	-4.423	9.249	32.251	1.00	16.28	N
ATOM	1714	CA	GLN	A	241	-4.776	7.834	32.289	1.00	16.22	C
ATOM	1715	C	GLN	A	241	-5.318	7.370	30.937	1.00	16.41	C
ATOM	1716	O	GLN	A	241	-6.339	7.880	30.476	1.00	16.31	O
ATOM	1717	CB	GLN	A	241	-5.807	7.580	33.392	1.00	16.16	C
ATOM	1718	CG	GLN	A	241	-6.396	6.169	33.416	1.00	15.84	C
ATOM	1719	CD	GLN	A	241	-7.098	5.847	34.722	1.00	16.00	C
ATOM	1720	OE1	GLN	A	241	-7.395	6.746	35.513	1.00	15.65	O
ATOM	1721	NE2	GLN	A	241	-7.365	4.563	34.953	1.00	15.90	N
ATOM	1722	N	PRO	A	242	-4.641	6.408	30.305	1.00	16.79	N
ATOM	1723	CA	PRO	A	242	-5.093	5.872	29.015	1.00	17.07	C
ATOM	1724	C	PRO	A	242	-6.456	5.189	29.143	1.00	17.34	C
ATOM	1725	O	PRO	A	242	-6.669	4.466	30.120	1.00	17.35	O
ATOM	1726	CB	PRO	A	242	-4.005	4.855	28.655	1.00	16.94	C
ATOM	1727	CG	PRO	A	242	-2.824	5.262	29.467	1.00	16.93	C
ATOM	1728	CD	PRO	A	242	-3.397	5.759	30.759	1.00	16.83	C
ATOM	1729	N	PRO	A	243	-7.358	5.437	28.188	1.00	17.55	N
ATOM	1730	CA	PRO	A	243	-8.723	4.884	28.207	1.00	17.67	C
ATOM	1731	C	PRO	A	243	-8.818	3.395	28.553	1.00	17.80	C
ATOM	1732	O	PRO	A	243	-9.696	3.017	29.325	1.00	18.11	O
ATOM	1733	CB	PRO	A	243	-9.210	5.119	26.774	1.00	17.61	C
ATOM	1734	CG	PRO	A	243	-8.473	6.326	26.321	1.00	17.59	C
ATOM	1735	CD	PRO	A	243	-7.136	6.304	27.015	1.00	17.41	C

FIG. 4CC

ATOM	1736	N	ILE	A	244	-7.929	2.575	28.003	1.00	18.01	N
ATOM	1737	CA	ILE	A	244	-7.974	1.125	28.211	1.00	18.27	C
ATOM	1738	C	ILE	A	244	-7.446	0.673	29.580	1.00	18.61	C
ATOM	1739	O	ILE	A	244	-7.552	-0.509	29.928	1.00	18.60	O
ATOM	1740	CB	ILE	A	244	-7.228	0.372	27.066	1.00	18.29	C
ATOM	1741	CG1	ILE	A	244	-5.718	0.636	27.127	1.00	18.33	C
ATOM	1742	CD1	ILE	A	244	-4.873	-0.598	26.924	1.00	18.55	C
ATOM	1743	CG2	ILE	A	244	-7.808	0.739	25.697	1.00	17.76	C
ATOM	1744	N	CYS	A	245	-6.894	1.611	30.350	1.00	18.75	N
ATOM	1745	CA	CYS	A	245	-6.241	1.294	31.621	1.00	18.94	C
ATOM	1746	C	CYS	A	245	-7.163	1.371	32.835	1.00	19.33	C
ATOM	1747	O	CYS	A	245	-7.803	2.401	33.076	1.00	19.54	O
ATOM	1748	CB	CYS	A	245	-5.045	2.219	31.850	1.00	18.88	C
ATOM	1749	SG	CYS	A	245	-3.640	1.920	30.767	1.00	18.26	S
ATOM	1750	N	THR	A	246	-7.209	0.282	33.601	1.00	19.58	N
ATOM	1751	CA	THR	A	246	-7.842	0.285	34.919	1.00	19.83	C
ATOM	1752	C	THR	A	246	-6.909	0.989	35.901	1.00	20.24	C
ATOM	1753	O	THR	A	246	-5.705	1.103	35.645	1.00	20.07	O
ATOM	1754	CB	THR	A	246	-8.133	-1.149	35.412	1.00	19.83	C
ATOM	1755	OG1	THR	A	246	-6.934	-1.932	35.349	1.00	19.85	O
ATOM	1756	CG2	THR	A	246	-9.100	-1.875	34.475	1.00	19.57	C
ATOM	1757	N	ILE	A	247	-7.462	1.442	37.026	1.00	20.58	N
ATOM	1758	CA	ILE	A	247	-6.696	2.196	38.018	1.00	21.02	C
ATOM	1759	C	ILE	A	247	-5.422	1.480	38.486	1.00	21.30	C
ATOM	1760	O	ILE	A	247	-4.440	2.132	38.836	1.00	21.66	O
ATOM	1761	CB	ILE	A	247	-7.601	2.625	39.217	1.00	21.12	C
ATOM	1762	CG1	ILE	A	247	-7.055	3.896	39.879	1.00	21.08	C
ATOM	1763	CG2	ILE	A	247	-7.773	1.492	40.237	1.00	21.11	C
ATOM	1764	N	ASP	A	248	-5.445	0.148	38.468	1.00	21.38	N
ATOM	1765	CA	ASP	A	248	-4.304	-0.669	38.876	1.00	21.33	C
ATOM	1766	C	ASP	A	248	-3.125	-0.552	37.911	1.00	21.12	C
ATOM	1767	O	ASP	A	248	-1.973	-0.521	38.342	1.00	21.35	O
ATOM	1768	CB	ASP	A	248	-4.721	-2.137	39.016	1.00	21.74	C
ATOM	1769	CG	ASP	A	248	-4.978	-2.543	40.458	1.00	22.18	C
ATOM	1770	OD1	ASP	A	248	-5.164	-3.753	40.710	1.00	22.94	O
ATOM	1771	OD2	ASP	A	248	-5.013	-1.730	41.406	1.00	22.65	O
ATOM	1772	N	VAL	A	249	-3.415	-0.498	36.612	1.00	20.65	N
ATOM	1773	CA	VAL	A	249	-2.374	-0.357	35.594	1.00	20.23	C
ATOM	1774	C	VAL	A	249	-1.845	1.078	35.553	1.00	19.95	C
ATOM	1775	O	VAL	A	249	-0.646	1.296	35.370	1.00	20.00	O
ATOM	1776	CB	VAL	A	249	-2.860	-0.798	34.185	1.00	20.14	C
ATOM	1777	CG1	VAL	A	249	-1.767	-0.592	33.136	1.00	20.21	C
ATOM	1778	CG2	VAL	A	249	-3.293	-2.250	34.197	1.00	19.95	C
ATOM	1779	N	TYR	A	250	-2.740	2.046	35.731	1.00	19.73	N
ATOM	1780	CA	TYR	A	250	-2.360	3.459	35.734	1.00	19.51	C
ATOM	1781	C	TYR	A	250	-1.520	3.830	36.954	1.00	19.47	C
ATOM	1782	O	TYR	A	250	-0.626	4.664	36.855	1.00	19.63	O
ATOM	1783	CB	TYR	A	250	-3.591	4.368	35.632	1.00	19.26	C
ATOM	1784	CG	TYR	A	250	-3.264	5.851	35.610	1.00	18.79	C
ATOM	1785	CD1	TYR	A	250	-3.859	6.728	36.517	1.00	17.98	C
ATOM	1786	CE1	TYR	A	250	-3.565	8.087	36.502	1.00	17.77	C
ATOM	1787	CZ	TYR	A	250	-2.665	8.585	35.572	1.00	17.96	C
ATOM	1788	OH	TYR	A	250	-2.374	9.927	35.557	1.00	17.47	O
ATOM	1789	CE2	TYR	A	250	-2.056	7.737	34.660	1.00	18.16	C
ATOM	1790	CD2	TYR	A	250	-2.359	6.377	34.681	1.00	18.36	C
ATOM	1791	N	MET	A	251	-1.802	3.196	38.090	1.00	19.53	N
ATOM	1792	CA	MET	A	251	-1.063	3.440	39.329	1.00	19.50	C
ATOM	1793	C	MET	A	251	0.399	3.008	39.262	1.00	19.37	C
ATOM	1794	O	MET	A	251	1.243	3.580	39.954	1.00	19.54	O
ATOM	1795	CB	MET	A	251	-1.748	2.754	40.511	1.00	19.55	C

FIG. 4DD

ATOM	1796	CG	MET	A	251	-2.869	3.569	41.127	1.00	19.98	C
ATOM	1797	SD	MET	A	251	-2.379	5.234	41.621	1.00	20.75	S
ATOM	1798	CE	MET	A	251	-1.468	4.872	43.146	1.00	20.68	C
ATOM	1799	N	ILE	A	252	0.689	2.002	38.438	1.00	19.21	N
ATOM	1800	CA	ILE	A	252	2.055	1.515	38.253	1.00	19.06	C
ATOM	1801	C	ILE	A	252	2.938	2.592	37.623	1.00	19.04	C
ATOM	1802	O	ILE	A	252	4.014	2.889	38.142	1.00	18.95	O
ATOM	1803	CB	ILE	A	252	2.075	0.202	37.418	1.00	19.10	C
ATOM	1804	CG1	ILE	A	252	1.766	-1.004	38.312	1.00	18.99	C
ATOM	1805	CD1	ILE	A	252	1.608	-2.317	37.560	1.00	19.04	C
ATOM	1806	CG2	ILE	A	252	3.422	0.016	36.714	1.00	18.99	C
ATOM	1807	N	MET	A	253	2.477	3.181	36.519	1.00	19.01	N
ATOM	1808	CA	MET	A	253	3.243	4.228	35.838	1.00	19.12	C
ATOM	1809	C	MET	A	253	3.331	5.486	36.695	1.00	18.66	C
ATOM	1810	O	MET	A	253	4.376	6.135	36.734	1.00	18.54	O
ATOM	1811	CB	MET	A	253	2.692	4.550	34.435	1.00	19.34	C
ATOM	1812	CG	MET	A	253	1.258	4.113	34.173	1.00	20.34	C
ATOM	1813	SD	MET	A	253	0.800	4.219	32.431	1.00	21.21	S
ATOM	1814	CE	MET	A	253	-0.398	2.920	32.333	1.00	21.00	C
ATOM	1815	N	VAL	A	254	2.237	5.807	37.388	1.00	18.26	N
ATOM	1816	CA	VAL	A	254	2.202	6.913	38.348	1.00	17.77	C
ATOM	1817	C	VAL	A	254	3.262	6.732	39.443	1.00	17.57	C
ATOM	1818	O	VAL	A	254	3.895	7.702	39.872	1.00	17.53	O
ATOM	1819	CB	VAL	A	254	0.785	7.094	38.960	1.00	17.70	C
ATOM	1820	CG1	VAL	A	254	0.817	7.966	40.221	1.00	17.51	C
ATOM	1821	CG2	VAL	A	254	-0.156	7.698	37.936	1.00	17.34	C
ATOM	1822	N	LYS	A	255	3.460	5.486	39.870	1.00	17.14	N
ATOM	1823	CA	LYS	A	255	4.492	5.147	40.846	1.00	16.92	C
ATOM	1824	C	LYS	A	255	5.906	5.322	40.278	1.00	16.85	C
ATOM	1825	O	LYS	A	255	6.825	5.713	40.999	1.00	16.73	O
ATOM	1826	CB	LYS	A	255	4.293	3.720	41.361	1.00	16.79	C
ATOM	1827	CG	LYS	A	255	3.657	3.641	42.738	1.00	16.86	C
ATOM	1828	N	CYS	A	256	6.070	5.033	38.986	1.00	16.84	N
ATOM	1829	CA	CYS	A	256	7.348	5.210	38.295	1.00	16.76	C
ATOM	1830	C	CYS	A	256	7.744	6.689	38.186	1.00	17.05	C
ATOM	1831	O	CYS	A	256	8.917	7.006	37.978	1.00	17.06	O
ATOM	1832	CB	CYS	A	256	7.308	4.577	36.897	1.00	16.68	C
ATOM	1833	SG	CYS	A	256	6.894	2.809	36.822	1.00	16.67	S
ATOM	1834	N	TRP	A	257	6.766	7.584	38.336	1.00	17.20	N
ATOM	1835	CA	TRP	A	257	6.990	9.021	38.175	1.00	17.29	C
ATOM	1836	C	TRP	A	257	7.052	9.803	39.496	1.00	17.59	C
ATOM	1837	O	TRP	A	257	6.770	11.006	39.525	1.00	17.52	O
ATOM	1838	CB	TRP	A	257	5.932	9.632	37.249	1.00	17.24	C
ATOM	1839	CG	TRP	A	257	5.797	8.962	35.906	1.00	17.23	C
ATOM	1840	CD1	TRP	A	257	6.798	8.421	35.148	1.00	16.77	C
ATOM	1841	NE1	TRP	A	257	6.283	7.904	33.984	1.00	16.80	N
ATOM	1842	CE2	TRP	A	257	4.928	8.104	33.966	1.00	16.76	C
ATOM	1843	CD2	TRP	A	257	4.587	8.774	35.161	1.00	17.00	C
ATOM	1844	CE3	TRP	A	257	3.240	9.098	35.387	1.00	17.15	C
ATOM	1845	CZ3	TRP	A	257	2.295	8.752	34.424	1.00	17.26	C
ATOM	1846	CH2	TRP	A	257	2.673	8.087	33.246	1.00	17.22	C
ATOM	1847	CZ2	TRP	A	257	3.979	7.756	33.000	1.00	16.76	C
ATOM	1848	N	MET	A	258	7.430	9.125	40.578	1.00	17.84	N
ATOM	1849	CA	MET	A	258	7.608	9.779	41.875	1.00	18.16	C
ATOM	1850	C	MET	A	258	8.911	10.575	41.903	1.00	18.02	C
ATOM	1851	O	MET	A	258	9.950	10.085	41.457	1.00	17.98	O
ATOM	1852	CB	MET	A	258	7.612	8.751	43.013	1.00	18.55	C
ATOM	1853	CG	MET	A	258	6.344	7.913	43.129	1.00	19.22	C
ATOM	1854	SD	MET	A	258	5.036	8.729	44.044	1.00	20.53	S
ATOM	1855	CE	MET	A	258	3.632	7.680	43.650	1.00	20.24	C

FIG. 4EE

ATOM	1856	N	ILE	A	259	8.846	11.798	42.431	1.00	17.95	N
ATOM	1857	CA	ILE	A	259	10.022	12.661	42.582	1.00	17.79	C
ATOM	1858	C	ILE	A	259	11.094	11.995	43.455	1.00	17.91	C
ATOM	1859	O	ILE	A	259	12.285	12.090	43.161	1.00	18.16	O
ATOM	1860	CB	ILE	A	259	9.624	14.065	43.138	1.00	17.79	C
ATOM	1861	CG1	ILE	A	259	8.462	14.678	42.337	1.00	17.48	C
ATOM	1862	CD1	ILE	A	259	8.711	14.852	40.839	1.00	16.82	C
ATOM	1863	CG2	ILE	A	259	10.836	15.017	43.191	1.00	17.37	C
ATOM	1864	N	ASP	A	260	10.664	11.317	44.517	1.00	18.02	N
ATOM	1865	CA	ASP	A	260	11.561	10.477	45.304	1.00	18.12	C
ATOM	1866	C	ASP	A	260	11.792	9.145	44.586	1.00	18.28	C
ATOM	1867	O	ASP	A	260	10.884	8.311	44.479	1.00	18.14	O
ATOM	1868	CB	ASP	A	260	11.012	10.251	46.715	1.00	18.08	C
ATOM	1869	CG	ASP	A	260	11.809	9.215	47.492	1.00	18.62	C
ATOM	1870	OD1	ASP	A	260	11.221	8.184	47.877	1.00	19.78	O
ATOM	1871	OD2	ASP	A	260	13.026	9.333	47.757	1.00	18.48	O
ATOM	1872	N	ALA	A	261	13.018	8.961	44.103	1.00	18.38	N
ATOM	1873	CA	ALA	A	261	13.400	7.789	43.320	1.00	18.68	C
ATOM	1874	C	ALA	A	261	13.326	6.472	44.100	1.00	18.95	C
ATOM	1875	O	ALA	A	261	13.216	5.402	43.503	1.00	18.96	O
ATOM	1876	CB	ALA	A	261	14.794	7.986	42.733	1.00	18.57	C
ATOM	1877	N	ASP	A	262	13.383	6.557	45.426	1.00	19.26	N
ATOM	1878	CA	ASP	A	262	13.374	5.371	46.278	1.00	19.74	C
ATOM	1879	C	ASP	A	262	11.964	4.836	46.560	1.00	19.82	C
ATOM	1880	O	ASP	A	262	11.804	3.704	47.028	1.00	19.80	O
ATOM	1881	CB	ASP	A	262	14.132	5.642	47.581	1.00	20.09	C
ATOM	1882	CG	ASP	A	262	15.614	5.901	47.351	1.00	21.02	C
ATOM	1883	OD1	ASP	A	262	16.277	5.063	46.698	1.00	21.63	O
ATOM	1884	OD2	ASP	A	262	16.204	6.917	47.780	1.00	22.09	O
ATOM	1885	N	SER	A	263	10.949	5.651	46.278	1.00	19.82	N
ATOM	1886	CA	SER	A	263	9.557	5.206	46.364	1.00	19.58	C
ATOM	1887	C	SER	A	263	9.039	4.767	44.995	1.00	19.43	C
ATOM	1888	O	SER	A	263	7.870	4.409	44.844	1.00	19.46	O
ATOM	1889	CB	SER	A	263	8.657	6.290	46.969	1.00	19.57	C
ATOM	1890	OG	SER	A	263	9.103	7.588	46.628	1.00	19.24	O
ATOM	1891	N	ARG	A	264	9.920	4.802	44.000	1.00	19.32	N
ATOM	1892	CA	ARG	A	264	9.621	4.260	42.682	1.00	19.28	C
ATOM	1893	C	ARG	A	264	9.760	2.744	42.752	1.00	19.36	C
ATOM	1894	O	ARG	A	264	10.562	2.241	43.541	1.00	19.44	O
ATOM	1895	CB	ARG	A	264	10.589	4.820	41.640	1.00	19.23	C
ATOM	1896	CG	ARG	A	264	10.261	6.214	41.140	1.00	18.85	C
ATOM	1897	CD	ARG	A	264	11.255	6.744	40.121	1.00	18.49	C
ATOM	1898	NE	ARG	A	264	11.374	8.199	40.175	1.00	18.10	N
ATOM	1899	CZ	ARG	A	264	12.469	8.880	39.860	1.00	18.13	C
ATOM	1900	NH1	ARG	A	264	12.470	10.204	39.947	1.00	18.53	N
ATOM	1901	NH2	ARG	A	264	13.565	8.250	39.461	1.00	17.66	N
ATOM	1902	N	PRO	A	265	8.986	2.015	41.946	1.00	19.45	N
ATOM	1903	CA	PRO	A	265	9.109	0.555	41.880	1.00	19.40	C
ATOM	1904	C	PRO	A	265	10.481	0.126	41.366	1.00	19.49	C
ATOM	1905	O	PRO	A	265	11.147	0.889	40.661	1.00	19.38	O
ATOM	1906	CB	PRO	A	265	8.035	0.159	40.863	1.00	19.41	C
ATOM	1907	CG	PRO	A	265	7.092	1.299	40.831	1.00	19.37	C
ATOM	1908	CD	PRO	A	265	7.933	2.513	41.042	1.00	19.62	C
ATOM	1909	N	LYS	A	266	10.902	-1.076	41.741	1.00	19.55	N
ATOM	1910	CA	LYS	A	266	12.093	-1.683	41.168	1.00	19.72	C
ATOM	1911	C	LYS	A	266	11.668	-2.493	39.947	1.00	19.86	C
ATOM	1912	O	LYS	A	266	10.489	-2.828	39.805	1.00	19.92	O
ATOM	1913	CB	LYS	A	266	12.794	-2.570	42.197	1.00	19.77	C
ATOM	1914	CG	LYS	A	266	13.578	-1.796	43.252	1.00	19.79	C
ATOM	1915	N	PHE	A	267	12.617	-2.792	39.064	1.00	20.07	N

FIG. 4FF



ATOM	1916	CA	PHE	A	267	12.329	-3.570	37.858	1.00	20.25	C
ATOM	1917	C	PHE	A	267	11.921	-5.004	38.184	1.00	20.45	C
ATOM	1918	O	PHE	A	267	11.101	-5.592	37.477	1.00	20.54	O
ATOM	1919	CB	PHE	A	267	13.519	-3.559	36.899	1.00	20.10	C
ATOM	1920	CG	PHE	A	267	13.692	-2.261	36.159	1.00	20.16	C
ATOM	1921	CD1	PHE	A	267	12.646	-1.718	35.417	1.00	19.83	C
ATOM	1922	CE1	PHE	A	267	12.806	-0.521	34.734	1.00	19.70	C
ATOM	1923	CZ	PHE	A	267	14.022	0.144	34.784	1.00	19.60	C
ATOM	1924	CE2	PHE	A	267	15.074	-0.387	35.519	1.00	19.37	C
ATOM	1925	CD2	PHE	A	267	14.907	-1.581	36.200	1.00	19.75	C
ATOM	1926	N	ARG	A	268	12.493	-5.549	39.256	1.00	20.64	N
ATOM	1927	CA	ARG	A	268	12.136	-6.879	39.753	1.00	21.04	C
ATOM	1928	C	ARG	A	268	10.682	-6.934	40.230	1.00	20.95	C
ATOM	1929	O	ARG	A	268	10.012	-7.954	40.077	1.00	21.04	O
ATOM	1930	CB	ARG	A	268	13.094	-7.327	40.871	1.00	21.21	C
ATOM	1931	CG	ARG	A	268	13.206	-6.369	42.059	1.00	22.16	C
ATOM	1932	CD	ARG	A	268	13.475	-7.044	43.399	1.00	23.52	C
ATOM	1933	NE	ARG	A	268	12.283	-7.695	43.948	1.00	24.25	N
ATOM	1934	CZ	ARG	A	268	11.683	-7.351	45.086	1.00	24.66	C
ATOM	1935	NH1	ARG	A	268	10.605	-8.012	45.487	1.00	24.72	N
ATOM	1936	NH2	ARG	A	268	12.150	-6.349	45.825	1.00	24.70	N
ATOM	1937	N	GLU	A	269	10.210	-5.829	40.802	1.00	20.99	N
ATOM	1938	CA	GLU	A	269	8.831	-5.702	41.259	1.00	21.07	C
ATOM	1939	C	GLU	A	269	7.869	-5.607	40.082	1.00	20.97	C
ATOM	1940	O	GLU	A	269	6.783	-6.190	40.113	1.00	20.98	O
ATOM	1941	CB	GLU	A	269	8.679	-4.466	42.143	1.00	21.30	C
ATOM	1942	CG	GLU	A	269	8.849	-4.734	43.626	1.00	22.18	C
ATOM	1943	CD	GLU	A	269	9.776	-3.741	44.300	1.00	23.49	C
ATOM	1944	OE1	GLU	A	269	9.790	-2.556	43.891	1.00	23.93	O
ATOM	1945	OE2	GLU	A	269	10.490	-4.148	45.245	1.00	24.30	O
ATOM	1946	N	LEU	A	270	8.276	-4.870	39.050	1.00	20.82	N
ATOM	1947	CA	LEU	A	270	7.459	-4.681	37.854	1.00	20.61	C
ATOM	1948	C	LEU	A	270	7.276	-5.980	37.066	1.00	20.44	C
ATOM	1949	O	LEU	A	270	6.268	-6.147	36.380	1.00	20.53	O
ATOM	1950	CB	LEU	A	270	8.039	-3.578	36.959	1.00	20.71	C
ATOM	1951	CG	LEU	A	270	8.118	-2.152	37.527	1.00	20.96	C
ATOM	1952	CD1	LEU	A	270	9.217	-1.353	36.839	1.00	20.93	C
ATOM	1953	CD2	LEU	A	270	6.787	-1.418	37.427	1.00	20.87	C
ATOM	1954	N	ILE	A	271	8.247	-6.890	37.170	1.00	20.18	N
ATOM	1955	CA	ILE	A	271	8.133	-8.228	36.581	1.00	19.92	C
ATOM	1956	C	ILE	A	271	6.982	-8.990	37.237	1.00	19.70	C
ATOM	1957	O	ILE	A	271	6.123	-9.537	36.548	1.00	19.56	O
ATOM	1958	CB	ILE	A	271	9.464	-9.031	36.715	1.00	19.98	C
ATOM	1959	CG1	ILE	A	271	10.578	-8.389	35.886	1.00	19.93	C
ATOM	1960	CD1	ILE	A	271	11.972	-8.724	36.371	1.00	19.76	C
ATOM	1961	CG2	ILE	A	271	9.273	-10.497	36.293	1.00	19.42	C
ATOM	1962	N	ILE	A	272	6.976	-9.001	38.568	1.00	19.54	N
ATOM	1963	CA	ILE	A	272	5.958	-9.693	39.356	1.00	19.56	C
ATOM	1964	C	ILE	A	272	4.554	-9.131	39.111	1.00	19.55	C
ATOM	1965	O	ILE	A	272	3.623	-9.886	38.830	1.00	19.71	O
ATOM	1966	CB	ILE	A	272	6.320	-9.649	40.875	1.00	19.63	C
ATOM	1967	CG1	ILE	A	272	7.697	-10.290	41.147	1.00	19.53	C
ATOM	1968	CD1	ILE	A	272	7.821	-11.773	40.799	1.00	19.36	C
ATOM	1969	CG2	ILE	A	272	5.199	-10.254	41.743	1.00	19.53	C
ATOM	1970	N	GLU	A	273	4.416	-7.810	39.205	1.00	19.52	N
ATOM	1971	CA	GLU	A	273	3.118	-7.147	39.072	1.00	19.50	C
ATOM	1972	C	GLU	A	273	2.456	-7.383	37.714	1.00	19.70	C
ATOM	1973	O	GLU	A	273	1.312	-7.836	37.652	1.00	19.62	O
ATOM	1974	CB	GLU	A	273	3.249	-5.647	39.345	1.00	19.34	C
ATOM	1975	N	PHE	A	274	3.186	-7.085	36.638	1.00	19.92	N

FIG. 4GG

ATOM	1976	CA	PHE	A	274	2.662	-7.188	35.274	1.00	19.98	C
ATOM	1977	C	PHE	A	274	2.405	-8.622	34.801	1.00	20.26	C
ATOM	1978	O	PHE	A	274	1.515	-8.851	33.982	1.00	20.43	O
ATOM	1979	CB	PHE	A	274	3.586	-6.470	34.285	1.00	19.73	C
ATOM	1980	CG	PHE	A	274	3.310	-4.999	34.153	1.00	19.51	C
ATOM	1981	CD1	PHE	A	274	2.072	-4.543	33.711	1.00	19.39	C
ATOM	1982	CE1	PHE	A	274	1.816	-3.181	33.591	1.00	19.49	C
ATOM	1983	CZ	PHE	A	274	2.806	-2.260	33.913	1.00	19.02	C
ATOM	1984	CE2	PHE	A	274	4.045	-2.706	34.354	1.00	18.83	C
ATOM	1985	CD2	PHE	A	274	4.291	-4.067	34.471	1.00	18.97	C
ATOM	1986	N	SER	A	275	3.186	-9.579	35.300	1.00	20.63	N
ATOM	1987	CA	SER	A	275	2.982	-10.986	34.945	1.00	21.17	C
ATOM	1988	C	SER	A	275	1.764	-11.574	35.660	1.00	21.54	C
ATOM	1989	O	SER	A	275	1.128	-12.501	35.149	1.00	21.55	O
ATOM	1990	CB	SER	A	275	4.235	-11.818	35.221	1.00	20.92	C
ATOM	1991	OG	SER	A	275	4.554	-11.809	36.596	1.00	21.07	O
ATOM	1992	N	LYS	A	276	1.454	-11.030	36.838	1.00	22.01	N
ATOM	1993	CA	LYS	A	276	0.203	-11.322	37.538	1.00	22.52	C
ATOM	1994	C	LYS	A	276	-0.985	-10.798	36.731	1.00	22.84	C
ATOM	1995	O	LYS	A	276	-2.021	-11.459	36.632	1.00	23.00	O
ATOM	1996	CB	LYS	A	276	0.203	-10.689	38.931	1.00	22.47	C
ATOM	1997	CG	LYS	A	276	0.871	-11.533	39.997	1.00	23.00	C
ATOM	1998	CD	LYS	A	276	1.188	-10.716	41.237	1.00	23.49	C
ATOM	1999	CE	LYS	A	276	1.590	-11.615	42.394	1.00	23.73	C
ATOM	2000	NZ	LYS	A	276	2.144	-10.839	43.539	1.00	24.02	N
ATOM	2001	N	MET	A	277	-0.816	-9.609	36.154	1.00	23.18	N
ATOM	2002	CA	MET	A	277	-1.831	-8.988	35.308	1.00	23.62	C
ATOM	2003	C	MET	A	277	-1.952	-9.696	33.959	1.00	23.92	C
ATOM	2004	O	MET	A	277	-3.026	-9.717	33.360	1.00	23.88	O
ATOM	2005	CB	MET	A	277	-1.526	-7.501	35.103	1.00	23.54	C
ATOM	2006	CG	MET	A	277	-1.647	-6.654	36.366	1.00	23.73	C
ATOM	2007	SD	MET	A	277	-1.239	-4.919	36.090	1.00	23.64	S
ATOM	2008	CE	MET	A	277	-1.698	-4.208	37.645	1.00	23.72	C
ATOM	2009	N	ALA	A	278	-0.845	-10.268	33.489	1.00	24.44	N
ATOM	2010	CA	ALA	A	278	-0.821	-11.034	32.240	1.00	24.93	C
ATOM	2011	C	ALA	A	278	-1.600	-12.348	32.353	1.00	25.26	C
ATOM	2012	O	ALA	A	278	-2.041	-12.901	31.344	1.00	25.34	O
ATOM	2013	CB	ALA	A	278	0.614	-11.299	31.804	1.00	24.73	C
ATOM	2014	N	ARG	A	279	-1.766	-12.837	33.581	1.00	25.71	N
ATOM	2015	CA	ARG	A	279	-2.548	-14.043	33.847	1.00	26.32	C
ATOM	2016	C	ARG	A	279	-4.062	-13.809	33.737	1.00	26.68	C
ATOM	2017	O	ARG	A	279	-4.822	-14.748	33.492	1.00	26.80	O
ATOM	2018	CB	ARG	A	279	-2.192	-14.619	35.222	1.00	26.38	C
ATOM	2019	CG	ARG	A	279	-0.915	-15.453	35.231	1.00	26.37	C
ATOM	2020	CD	ARG	A	279	-0.292	-15.630	36.604	1.00	25.96	C
ATOM	2021	N	ASP	A	280	-4.484	-12.559	33.926	1.00	27.14	N
ATOM	2022	CA	ASP	A	280	-5.885	-12.158	33.796	1.00	27.50	C
ATOM	2023	C	ASP	A	280	-5.966	-10.837	33.021	1.00	27.75	C
ATOM	2024	O	ASP	A	280	-6.248	-9.786	33.605	1.00	27.91	O
ATOM	2025	CB	ASP	A	280	-6.523	-12.006	35.182	1.00	27.63	C
ATOM	2026	CG	ASP	A	280	-8.025	-12.247	35.174	1.00	28.04	C
ATOM	2027	OD1	ASP	A	280	-8.734	-11.648	34.338	1.00	28.59	O
ATOM	2028	OD2	ASP	A	280	-8.590	-13.015	35.980	1.00	28.47	O
ATOM	2029	N	PRO	A	281	-5.729	-10.895	31.709	1.00	27.81	N
ATOM	2030	CA	PRO	A	281	-5.502	-9.690	30.895	1.00	27.88	C
ATOM	2031	C	PRO	A	281	-6.682	-8.719	30.823	1.00	28.00	C
ATOM	2032	O	PRO	A	281	-6.471	-7.508	30.918	1.00	27.90	O
ATOM	2033	CB	PRO	A	281	-5.204	-10.258	29.502	1.00	27.85	C
ATOM	2034	CG	PRO	A	281	-4.835	-11.674	29.739	1.00	27.90	C
ATOM	2035	CD	PRO	A	281	-5.669	-12.121	30.894	1.00	27.81	C

FIG. 4HH

ATOM	2036	N	GLN	A	282	-7.895	-9.244	30.659	1.00	28.19	N
ATOM	2037	CA	GLN	A	282	-9.088	-8.413	30.492	1.00	28.23	C
ATOM	2038	C	GLN	A	282	-9.601	-7.824	31.812	1.00	28.18	C
ATOM	2039	O	GLN	A	282	-10.509	-6.990	31.816	1.00	28.24	O
ATOM	2040	CB	GLN	A	282	-10.187	-9.195	29.765	1.00	28.37	C
ATOM	2041	CG	GLN	A	282	-9.932	-9.339	28.268	1.00	29.06	C
ATOM	2042	CD	GLN	A	282	-10.875	-10.312	27.589	1.00	29.88	C
ATOM	2043	OE1	GLN	A	282	-12.044	-9.995	27.358	1.00	30.65	O
ATOM	2044	NE2	GLN	A	282	-10.368	-11.494	27.256	1.00	29.87	N
ATOM	2045	N	ARG	A	283	-9.011	-8.257	32.923	1.00	28.06	N
ATOM	2046	CA	ARG	A	283	-9.304	-7.690	34.235	1.00	28.09	C
ATOM	2047	C	ARG	A	283	-8.652	-6.317	34.387	1.00	27.94	C
ATOM	2048	O	ARG	A	283	-9.215	-5.415	35.010	1.00	27.90	O
ATOM	2049	CB	ARG	A	283	-8.808	-8.627	35.343	1.00	28.28	C
ATOM	2050	CG	ARG	A	283	-9.257	-8.252	36.752	1.00	28.68	C
ATOM	2051	CD	ARG	A	283	-8.664	-9.127	37.844	1.00	29.47	C
ATOM	2052	NE	ARG	A	283	-8.775	-8.510	39.165	1.00	30.16	N
ATOM	2053	CZ	ARG	A	283	-8.645	-9.161	40.318	1.00	30.73	C
ATOM	2054	NH1	ARG	A	283	-8.394	-10.467	40.333	1.00	30.92	N
ATOM	2055	NH2	ARG	A	283	-8.767	-8.505	41.465	1.00	30.86	N
ATOM	2056	N	TYR	A	284	-7.465	-6.171	33.806	1.00	27.76	N
ATOM	2057	CA	TYR	A	284	-6.640	-4.989	34.024	1.00	27.59	C
ATOM	2058	C	TYR	A	284	-6.608	-4.036	32.831	1.00	27.61	C
ATOM	2059	O	TYR	A	284	-6.302	-2.853	32.990	1.00	27.37	O
ATOM	2060	CB	TYR	A	284	-5.226	-5.405	34.432	1.00	27.46	C
ATOM	2061	CG	TYR	A	284	-5.177	-6.173	35.735	1.00	27.33	C
ATOM	2062	CD1	TYR	A	284	-5.194	-7.568	35.744	1.00	27.09	C
ATOM	2063	CE1	TYR	A	284	-5.150	-8.280	36.936	1.00	26.78	C
ATOM	2064	CZ	TYR	A	284	-5.093	-7.595	38.136	1.00	26.76	C
ATOM	2065	OH	TYR	A	284	-5.051	-8.299	39.315	1.00	26.68	O
ATOM	2066	CE2	TYR	A	284	-5.078	-6.209	38.157	1.00	26.83	C
ATOM	2067	CD2	TYR	A	284	-5.121	-5.506	36.960	1.00	27.00	C
ATOM	2068	N	LEU	A	285	-6.924	-4.552	31.645	1.00	27.69	N
ATOM	2069	CA	LEU	A	285	-7.037	-3.721	30.449	1.00	27.89	C
ATOM	2070	C	LEU	A	285	-8.373	-3.941	29.751	1.00	28.17	C
ATOM	2071	O	LEU	A	285	-8.772	-5.081	29.506	1.00	28.31	O
ATOM	2072	CB	LEU	A	285	-5.876	-3.975	29.480	1.00	27.76	C
ATOM	2073	CG	LEU	A	285	-4.447	-3.602	29.900	1.00	27.57	C
ATOM	2074	CD1	LEU	A	285	-3.470	-3.959	28.794	1.00	27.30	C
ATOM	2075	CD2	LEU	A	285	-4.314	-2.125	30.277	1.00	27.55	C
ATOM	2076	N	VAL	A	286	-9.058	-2.844	29.437	1.00	28.61	N
ATOM	2077	CA	VAL	A	286	-10.371	-2.903	28.792	1.00	28.82	C
ATOM	2078	C	VAL	A	286	-10.282	-2.511	27.314	1.00	29.03	C
ATOM	2079	O	VAL	A	286	-10.167	-1.331	26.972	1.00	29.00	O
ATOM	2080	CB	VAL	A	286	-11.425	-2.038	29.539	1.00	28.82	C
ATOM	2081	CG1	VAL	A	286	-12.804	-2.183	28.900	1.00	28.77	C
ATOM	2082	CG2	VAL	A	286	-11.481	-2.417	31.016	1.00	28.38	C
ATOM	2083	N	ILE	A	287	-10.331	-3.522	26.452	1.00	29.44	N
ATOM	2084	CA	ILE	A	287	-10.239	-3.340	25.005	1.00	29.87	C
ATOM	2085	C	ILE	A	287	-11.505	-3.880	24.332	1.00	30.08	C
ATOM	2086	O	ILE	A	287	-12.022	-4.929	24.724	1.00	30.14	O
ATOM	2087	CB	ILE	A	287	-8.960	-4.036	24.463	1.00	29.91	C
ATOM	2088	CG1	ILE	A	287	-7.716	-3.229	24.842	1.00	30.14	C
ATOM	2089	CD1	ILE	A	287	-6.609	-4.059	25.452	1.00	30.12	C
ATOM	2090	CG2	ILE	A	287	-9.014	-4.227	22.949	1.00	30.04	C
ATOM	2091	N	GLN	A	288	-11.996	-3.147	23.330	1.00	30.42	N
ATOM	2092	CA	GLN	A	288	-13.221	-3.495	22.605	1.00	30.66	C
ATOM	2093	C	GLN	A	288	-13.100	-4.820	21.847	1.00	30.64	C
ATOM	2094	O	GLN	A	288	-12.458	-4.898	20.796	1.00	30.62	O
ATOM	2095	CB	GLN	A	288	-13.610	-2.370	21.638	1.00	30.72	C

FIG. 4II

ATOM	2096	CG	GLN	A	288	-14.354	-1.206	22.280	1.00	31.26	C
ATOM	2097	CD	GLN	A	288	-14.691	-0.101	21.286	1.00	32.11	C
ATOM	2098	OE1	GLN	A	288	-15.299	-0.355	20.242	1.00	32.33	O
ATOM	2099	NE2	GLN	A	288	-14.301	1.126	21.610	1.00	32.21	N
TER	2100		GLN	A	288						
ATOM	2101	N	LEU	B	9	47.691	6.198	5.619	1.00	33.98	N
ATOM	2102	CA	LEU	B	9	49.166	6.110	5.822	1.00	34.01	C
ATOM	2103	C	LEU	B	9	49.937	7.098	4.952	1.00	33.88	C
ATOM	2104	O	LEU	B	9	49.419	7.605	3.955	1.00	33.80	O
ATOM	2105	CB	LEU	B	9	49.665	4.687	5.554	1.00	34.13	C
ATOM	2106	CG	LEU	B	9	50.103	3.870	6.774	1.00	34.26	C
ATOM	2107	CD1	LEU	B	9	49.775	2.399	6.561	1.00	34.63	C
ATOM	2108	CD2	LEU	B	9	51.587	4.057	7.066	1.00	33.89	C
ATOM	2109	N	LEU	B	10	51.181	7.355	5.347	1.00	33.81	N
ATOM	2110	CA	LEU	B	10	52.079	8.246	4.622	1.00	33.84	C
ATOM	2111	C	LEU	B	10	52.528	7.636	3.297	1.00	33.93	C
ATOM	2112	O	LEU	B	10	52.716	6.421	3.189	1.00	33.83	O
ATOM	2113	CB	LEU	B	10	53.294	8.585	5.494	1.00	33.78	C
ATOM	2114	CG	LEU	B	10	54.397	9.519	4.982	1.00	33.65	C
ATOM	2115	CD1	LEU	B	10	53.948	10.973	4.961	1.00	33.13	C
ATOM	2116	CD2	LEU	B	10	55.644	9.353	5.835	1.00	33.69	C
ATOM	2117	N	ARG	B	11	52.684	8.497	2.295	1.00	34.00	N
ATOM	2118	CA	ARG	B	11	53.220	8.103	0.998	1.00	34.04	C
ATOM	2119	C	ARG	B	11	54.595	8.736	0.796	1.00	34.14	C
ATOM	2120	O	ARG	B	11	54.713	9.955	0.643	1.00	34.14	O
ATOM	2121	CB	ARG	B	11	52.272	8.525	-0.130	1.00	34.00	C
ATOM	2122	CG	ARG	B	11	51.030	7.660	-0.270	1.00	34.10	C
ATOM	2123	N	ILE	B	12	55.636	7.909	0.824	1.00	34.28	N
ATOM	2124	CA	ILE	B	12	56.974	8.368	0.474	1.00	34.31	C
ATOM	2125	C	ILE	B	12	57.011	8.499	-1.042	1.00	34.41	C
ATOM	2126	O	ILE	B	12	56.900	7.505	-1.768	1.00	34.55	O
ATOM	2127	CB	ILE	B	12	58.066	7.393	0.978	1.00	34.30	C
ATOM	2128	CG1	ILE	B	12	57.908	7.121	2.476	1.00	34.45	C
ATOM	2129	CD1	ILE	B	12	58.011	5.655	2.848	1.00	34.43	C
ATOM	2130	CG2	ILE	B	12	59.454	7.956	0.696	1.00	34.38	C
ATOM	2131	N	LEU	B	13	57.143	9.734	-1.513	1.00	34.36	N
ATOM	2132	CA	LEU	B	13	57.074	10.018	-2.939	1.00	34.39	C
ATOM	2133	C	LEU	B	13	58.438	10.338	-3.529	1.00	34.49	C
ATOM	2134	O	LEU	B	13	59.251	11.022	-2.904	1.00	34.59	O
ATOM	2135	CB	LEU	B	13	56.094	11.167	-3.216	1.00	34.31	C
ATOM	2136	CG	LEU	B	13	54.677	11.094	-2.629	1.00	34.02	C
ATOM	2137	CD1	LEU	B	13	53.957	12.412	-2.843	1.00	33.52	C
ATOM	2138	CD2	LEU	B	13	53.872	9.945	-3.226	1.00	33.81	C
ATOM	2139	N	LYS	B	14	58.679	9.831	-4.735	1.00	34.55	N
ATOM	2140	CA	LYS	B	14	59.860	10.193	-5.511	1.00	34.65	C
ATOM	2141	C	LYS	B	14	59.681	11.616	-6.028	1.00	34.79	C
ATOM	2142	O	LYS	B	14	58.549	12.055	-6.258	1.00	34.91	O
ATOM	2143	CB	LYS	B	14	60.048	9.229	-6.686	1.00	34.65	C
ATOM	2144	CG	LYS	B	14	60.455	7.815	-6.286	1.00	34.45	C
ATOM	2145	N	GLU	B	15	60.790	12.332	-6.209	1.00	34.75	N
ATOM	2146	CA	GLU	B	15	60.753	13.705	-6.722	1.00	34.75	C
ATOM	2147	C	GLU	B	15	60.186	13.779	-8.145	1.00	34.70	C
ATOM	2148	O	GLU	B	15	59.829	14.858	-8.625	1.00	34.80	O
ATOM	2149	CB	GLU	B	15	62.145	14.342	-6.670	1.00	34.73	C
ATOM	2150	N	THR	B	16	60.095	12.624	-8.798	1.00	34.65	N
ATOM	2151	CA	THR	B	16	59.594	12.524	-10.167	1.00	34.59	C
ATOM	2152	C	THR	B	16	58.074	12.325	-10.245	1.00	34.36	C
ATOM	2153	O	THR	B	16	57.500	12.303	-11.337	1.00	34.30	O
ATOM	2154	CB	THR	B	16	60.346	11.399	-10.932	1.00	34.67	C
ATOM	2155	OG1	THR	B	16	60.009	11.452	-12.324	1.00	35.10	O

FIG. 4JJ

ATOM	2156	CG2	THR	B	16	59.868	10.011	-10.494	1.00	34.46	C
ATOM	2157	N	GLU	B	17	57.431	12.182	-9.087	1.00	34.13	N
ATOM	2158	CA	GLU	B	17	55.993	11.911	-9.028	1.00	33.82	C
ATOM	2159	C	GLU	B	17	55.158	13.170	-8.777	1.00	33.45	C
ATOM	2160	O	GLU	B	17	53.932	13.099	-8.687	1.00	33.43	O
ATOM	2161	CB	GLU	B	17	55.686	10.840	-7.974	1.00	33.93	C
ATOM	2162	CG	GLU	B	17	56.287	9.475	-8.280	1.00	34.40	C
ATOM	2163	CD	GLU	B	17	55.885	8.410	-7.278	1.00	34.89	C
ATOM	2164	OE1	GLU	B	17	56.253	8.529	-6.088	1.00	35.15	O
ATOM	2165	OE2	GLU	B	17	55.203	7.446	-7.684	1.00	35.28	O
ATOM	2166	N	PHE	B	18	55.826	14.316	-8.669	1.00	33.09	N
ATOM	2167	CA	PHE	B	18	55.151	15.596	-8.459	1.00	32.70	C
ATOM	2168	C	PHE	B	18	55.930	16.763	-9.065	1.00	32.51	C
ATOM	2169	O	PHE	B	18	57.148	16.684	-9.224	1.00	32.58	O
ATOM	2170	CB	PHE	B	18	54.882	15.837	-6.964	1.00	32.63	C
ATOM	2171	CG	PHE	B	18	56.125	16.021	-6.137	1.00	32.22	C
ATOM	2172	CD1	PHE	B	18	56.610	17.296	-5.862	1.00	32.20	C
ATOM	2173	CE1	PHE	B	18	57.758	17.473	-5.095	1.00	32.34	C
ATOM	2174	CZ	PHE	B	18	58.430	16.367	-4.590	1.00	32.41	C
ATOM	2175	CE2	PHE	B	18	57.950	15.088	-4.855	1.00	32.46	C
ATOM	2176	CD2	PHE	B	18	56.800	14.923	-5.620	1.00	32.23	C
ATOM	2177	N	LYS	B	19	55.218	17.839	-9.394	1.00	32.35	N
ATOM	2178	CA	LYS	B	19	55.825	19.045	-9.957	1.00	32.30	C
ATOM	2179	C	LYS	B	19	55.187	20.314	-9.389	1.00	32.32	C
ATOM	2180	O	LYS	B	19	53.969	20.382	-9.220	1.00	32.35	O
ATOM	2181	CB	LYS	B	19	55.709	19.037	-11.484	1.00	32.28	C
ATOM	2182	CG	LYS	B	19	56.712	19.932	-12.198	1.00	32.23	C
ATOM	2183	N	LYS	B	20	56.021	21.311	-9.100	1.00	32.26	N
ATOM	2184	CA	LYS	B	20	55.560	22.590	-8.564	1.00	32.30	C
ATOM	2185	C	LYS	B	20	55.272	23.570	-9.701	1.00	32.30	C
ATOM	2186	O	LYS	B	20	56.129	23.809	-10.554	1.00	32.41	O
ATOM	2187	CB	LYS	B	20	56.595	23.178	-7.597	1.00	32.35	C
ATOM	2188	CG	LYS	B	20	57.022	22.234	-6.471	1.00	32.35	C
ATOM	2189	CD	LYS	B	20	58.145	22.825	-5.622	1.00	32.48	C
ATOM	2190	CE	LYS	B	20	59.525	22.510	-6.199	1.00	32.80	C
ATOM	2191	NZ	LYS	B	20	59.966	21.116	-5.913	1.00	32.82	N
ATOM	2192	N	ILE	B	21	54.066	24.136	-9.705	1.00	32.17	N
ATOM	2193	CA	ILE	B	21	53.602	24.971	-10.814	1.00	31.94	C
ATOM	2194	C	ILE	B	21	53.524	26.455	-10.447	1.00	31.94	C
ATOM	2195	O	ILE	B	21	54.124	27.294	-11.118	1.00	32.04	O
ATOM	2196	CB	ILE	B	21	52.247	24.437	-11.366	1.00	31.98	C
ATOM	2197	CG1	ILE	B	21	52.463	23.112	-12.103	1.00	32.04	C
ATOM	2198	CD1	ILE	B	21	51.503	22.019	-11.708	1.00	32.21	C
ATOM	2199	CG2	ILE	B	21	51.582	25.450	-12.300	1.00	31.74	C
ATOM	2200	N	LYS	B	22	52.787	26.775	-9.388	1.00	31.85	N
ATOM	2201	CA	LYS	B	22	52.634	28.162	-8.961	1.00	31.71	C
ATOM	2202	C	LYS	B	22	53.041	28.335	-7.506	1.00	31.60	C
ATOM	2203	O	LYS	B	22	52.793	27.457	-6.682	1.00	31.69	O
ATOM	2204	CB	LYS	B	22	51.191	28.630	-9.162	1.00	31.79	C
ATOM	2205	N	VAL	B	23	53.676	29.464	-7.200	1.00	31.28	N
ATOM	2206	CA	VAL	B	23	54.018	29.800	-5.822	1.00	31.08	C
ATOM	2207	C	VAL	B	23	52.773	30.362	-5.149	1.00	30.96	C
ATOM	2208	O	VAL	B	23	52.146	31.289	-5.668	1.00	31.13	O
ATOM	2209	CB	VAL	B	23	55.188	30.826	-5.739	1.00	31.10	C
ATOM	2210	CG1	VAL	B	23	55.499	31.199	-4.291	1.00	30.73	C
ATOM	2211	CG2	VAL	B	23	56.439	30.284	-6.418	1.00	31.48	C
ATOM	2212	N	LEU	B	24	52.403	29.789	-4.008	1.00	30.68	N
ATOM	2213	CA	LEU	B	24	51.286	30.317	-3.230	1.00	30.58	C
ATOM	2214	C	LEU	B	24	51.762	31.423	-2.294	1.00	30.48	C
ATOM	2215	O	LEU	B	24	51.081	32.435	-2.119	1.00	30.46	O

FIG. 4KK

ATOM	2216	CB	LEU	B	24	50.579	29.206	-2.448	1.00	30.42	C
ATOM	2217	CG	LEU	B	24	49.328	28.610	-3.104	1.00	30.39	C
ATOM	2218	CD1	LEU	B	24	49.100	27.189	-2.620	1.00	30.63	C
ATOM	2219	CD2	LEU	B	24	48.094	29.468	-2.837	1.00	30.36	C
ATOM	2220	N	GLY	B	25	52.941	31.225	-1.708	1.00	30.43	N
ATOM	2221	CA	GLY	B	25	53.526	32.188	-0.793	1.00	30.28	C
ATOM	2222	C	GLY	B	25	54.471	31.553	0.209	1.00	30.30	C
ATOM	2223	O	GLY	B	25	54.652	30.331	0.229	1.00	30.17	O
ATOM	2224	N	SER	B	26	55.070	32.397	1.047	1.00	30.26	N
ATOM	2225	CA	SER	B	26	56.030	31.959	2.055	1.00	30.20	C
ATOM	2226	C	SER	B	26	55.515	32.225	3.468	1.00	30.14	C
ATOM	2227	O	SER	B	26	54.572	32.992	3.660	1.00	30.35	O
ATOM	2228	CB	SER	B	26	57.371	32.662	1.845	1.00	30.13	C
ATOM	2229	OG	SER	B	26	57.783	32.574	0.494	1.00	30.57	O
ATOM	2230	N	GLY	B	27	56.140	31.583	4.450	1.00	30.06	N
ATOM	2231	CA	GLY	B	27	55.783	31.766	5.844	1.00	29.95	C
ATOM	2232	C	GLY	B	27	56.990	31.765	6.762	1.00	29.94	C
ATOM	2233	O	GLY	B	27	58.023	32.365	6.451	1.00	30.05	O
ATOM	2234	N	ALA	B	28	56.853	31.088	7.897	1.00	29.79	N
ATOM	2235	CA	ALA	B	28	57.906	31.024	8.904	1.00	29.69	C
ATOM	2236	C	ALA	B	28	58.713	29.732	8.817	1.00	29.66	C
ATOM	2237	O	ALA	B	28	59.796	29.638	9.390	1.00	29.72	O
ATOM	2238	CB	ALA	B	28	57.314	31.187	10.300	1.00	29.53	C
ATOM	2239	N	PHE	B	29	58.184	28.745	8.094	1.00	29.64	N
ATOM	2240	CA	PHE	B	29	58.789	27.415	8.033	1.00	29.41	C
ATOM	2241	C	PHE	B	29	59.009	26.908	6.611	1.00	29.33	C
ATOM	2242	O	PHE	B	29	59.776	25.964	6.399	1.00	29.49	O
ATOM	2243	CB	PHE	B	29	57.940	26.406	8.814	1.00	29.42	C
ATOM	2244	CG	PHE	B	29	57.887	26.673	10.289	1.00	29.64	C
ATOM	2245	CD1	PHE	B	29	58.971	26.366	11.104	1.00	29.76	C
ATOM	2246	CE1	PHE	B	29	58.925	26.619	12.470	1.00	30.09	C
ATOM	2247	CZ	PHE	B	29	57.784	27.184	13.034	1.00	29.98	C
ATOM	2248	CE2	PHE	B	29	56.696	27.493	12.229	1.00	29.75	C
ATOM	2249	CD2	PHE	B	29	56.752	27.237	10.863	1.00	29.79	C
ATOM	2250	N	GLY	B	30	58.336	27.520	5.641	1.00	29.09	N
ATOM	2251	CA	GLY	B	30	58.486	27.104	4.259	1.00	28.75	C
ATOM	2252	C	GLY	B	30	57.729	27.901	3.218	1.00	28.55	C
ATOM	2253	O	GLY	B	30	56.986	28.836	3.533	1.00	28.42	O
ATOM	2254	N	THR	B	31	57.942	27.515	1.963	1.00	28.38	N
ATOM	2255	CA	THR	B	31	57.261	28.101	0.818	1.00	28.05	C
ATOM	2256	C	THR	B	31	56.234	27.102	0.302	1.00	28.03	C
ATOM	2257	O	THR	B	31	56.569	25.958	-0.013	1.00	28.03	O
ATOM	2258	CB	THR	B	31	58.281	28.454	-0.285	1.00	27.97	C
ATOM	2259	OG1	THR	B	31	59.191	29.447	0.205	1.00	27.82	O
ATOM	2260	CG2	THR	B	31	57.601	29.149	-1.460	1.00	27.96	C
ATOM	2261	N	VAL	B	32	54.982	27.540	0.228	1.00	27.96	N
ATOM	2262	CA	VAL	B	32	53.903	26.691	-0.264	1.00	27.86	C
ATOM	2263	C	VAL	B	32	53.731	26.877	-1.768	1.00	27.85	C
ATOM	2264	O	VAL	B	32	53.748	28.001	-2.277	1.00	28.03	O
ATOM	2265	CB	VAL	B	32	52.575	26.939	0.495	1.00	27.79	C
ATOM	2266	CG1	VAL	B	32	51.461	26.052	-0.042	1.00	27.78	C
ATOM	2267	CG2	VAL	B	32	52.762	26.679	1.982	1.00	27.76	C
ATOM	2268	N	TYR	B	33	53.583	25.758	-2.469	1.00	27.72	N
ATOM	2269	CA	TYR	B	33	53.424	25.753	-3.912	1.00	27.67	C
ATOM	2270	C	TYR	B	33	52.108	25.103	-4.302	1.00	27.56	C
ATOM	2271	O	TYR	B	33	51.662	24.150	-3.664	1.00	27.55	O
ATOM	2272	CB	TYR	B	33	54.566	24.975	-4.575	1.00	27.76	C
ATOM	2273	CG	TYR	B	33	55.937	25.586	-4.409	1.00	28.13	C
ATOM	2274	CD1	TYR	B	33	56.438	26.487	-5.349	1.00	28.14	C
ATOM	2275	CE1	TYR	B	33	57.704	27.046	-5.203	1.00	28.57	C

FIG. 4LL

ATOM	2276	CZ	TYR	B	33	58.482	26.702	-4.107	1.00	28.87	C
ATOM	2277	OH	TYR	B	33	59.733	27.254	-3.954	1.00	29.32	O
ATOM	2278	CE2	TYR	B	33	58.008	25.806	-3.161	1.00	28.67	C
ATOM	2279	CD2	TYR	B	33	56.742	25.252	-3.317	1.00	28.47	C
ATOM	2280	N	LYS	B	34	51.490	25.636	-5.351	1.00	27.51	N
ATOM	2281	CA	LYS	B	34	50.421	24.944	-6.053	1.00	27.50	C
ATOM	2282	C	LYS	B	34	51.083	24.054	-7.089	1.00	27.38	C
ATOM	2283	O	LYS	B	34	51.898	24.526	-7.888	1.00	27.32	O
ATOM	2284	CB	LYS	B	34	49.486	25.942	-6.734	1.00	27.57	C
ATOM	2285	CG	LYS	B	34	48.187	26.168	-5.998	1.00	27.81	C
ATOM	2286	CD	LYS	B	34	47.135	26.770	-6.904	1.00	28.47	C
ATOM	2287	CE	LYS	B	34	46.836	28.209	-6.521	1.00	28.61	C
ATOM	2288	NZ	LYS	B	34	47.432	29.170	-7.494	1.00	28.86	N
ATOM	2289	N	GLY	B	35	50.746	22.767	-7.067	1.00	27.38	N
ATOM	2290	CA	GLY	B	35	51.364	21.805	-7.964	1.00	27.34	C
ATOM	2291	C	GLY	B	35	50.546	20.565	-8.257	1.00	27.34	C
ATOM	2292	O	GLY	B	35	49.432	20.406	-7.757	1.00	26.97	O
ATOM	2293	N	LEU	B	36	51.116	19.685	-9.075	1.00	27.72	N
ATOM	2294	CA	LEU	B	36	50.453	18.456	-9.500	1.00	28.11	C
ATOM	2295	C	LEU	B	36	51.096	17.223	-8.882	1.00	28.41	C
ATOM	2296	O	LEU	B	36	52.315	17.161	-8.727	1.00	28.37	O
ATOM	2297	CB	LEU	B	36	50.482	18.332	-11.026	1.00	28.07	C
ATOM	2298	CG	LEU	B	36	49.272	18.800	-11.843	1.00	28.21	C
ATOM	2299	CD1	LEU	B	36	49.582	18.707	-13.327	1.00	28.16	C
ATOM	2300	CD2	LEU	B	36	48.011	18.007	-11.516	1.00	28.23	C
ATOM	2301	N	TRP	B	37	50.261	16.249	-8.533	1.00	28.91	N
ATOM	2302	CA	TRP	B	37	50.717	14.964	-8.018	1.00	29.48	C
ATOM	2303	C	TRP	B	37	50.344	13.868	-9.010	1.00	29.70	C
ATOM	2304	O	TRP	B	37	49.168	13.680	-9.326	1.00	29.69	O
ATOM	2305	CB	TRP	B	37	50.097	14.686	-6.642	1.00	29.68	C
ATOM	2306	CG	TRP	B	37	50.548	13.401	-5.978	1.00	30.20	C
ATOM	2307	CD1	TRP	B	37	51.660	12.658	-6.275	1.00	30.53	C
ATOM	2308	NE1	TRP	B	37	51.731	11.558	-5.454	1.00	30.58	N
ATOM	2309	CE2	TRP	B	37	50.663	11.572	-4.597	1.00	30.67	C
ATOM	2310	CD2	TRP	B	37	49.896	12.720	-4.899	1.00	30.54	C
ATOM	2311	CE3	TRP	B	37	48.735	12.962	-4.152	1.00	30.95	C
ATOM	2312	CZ3	TRP	B	37	48.382	12.067	-3.146	1.00	31.27	C
ATOM	2313	CH2	TRP	B	37	49.168	10.937	-2.874	1.00	31.31	C
ATOM	2314	CZ2	TRP	B	37	50.308	10.673	-3.586	1.00	31.05	C
ATOM	2315	N	ILE	B	38	51.356	13.158	-9.502	1.00	30.12	N
ATOM	2316	CA	ILE	B	38	51.165	12.096	-10.486	1.00	30.54	C
ATOM	2317	C	ILE	B	38	51.885	10.816	-10.062	1.00	30.68	C
ATOM	2318	O	ILE	B	38	53.090	10.675	-10.283	1.00	30.85	O
ATOM	2319	CB	ILE	B	38	51.641	12.553	-11.888	1.00	30.47	C
ATOM	2320	N	PRO	B	39	51.145	9.888	-9.454	1.00	31.01	N
ATOM	2321	CA	PRO	B	39	51.718	8.615	-8.994	1.00	31.14	C
ATOM	2322	C	PRO	B	39	51.989	7.643	-10.144	1.00	31.39	C
ATOM	2323	O	PRO	B	39	51.586	7.906	-11.282	1.00	31.62	O
ATOM	2324	CB	PRO	B	39	50.629	8.058	-8.075	1.00	31.16	C
ATOM	2325	CG	PRO	B	39	49.352	8.637	-8.602	1.00	31.20	C
ATOM	2326	CD	PRO	B	39	49.701	9.986	-9.162	1.00	31.03	C
ATOM	2327	N	ILE	B	46	46.081	15.307	-10.527	1.00	24.43	N
ATOM	2328	CA	ILE	B	46	45.702	15.591	-9.143	1.00	24.50	C
ATOM	2329	C	ILE	B	46	46.391	16.852	-8.602	1.00	24.43	C
ATOM	2330	O	ILE	B	46	47.552	16.799	-8.192	1.00	24.34	O
ATOM	2331	CB	ILE	B	46	45.997	14.375	-8.233	1.00	24.30	C
ATOM	2332	N	PRO	B	47	45.680	17.982	-8.617	1.00	24.47	N
ATOM	2333	CA	PRO	B	47	46.200	19.240	-8.061	1.00	24.46	C
ATOM	2334	C	PRO	B	47	46.413	19.134	-6.554	1.00	24.35	C
ATOM	2335	O	PRO	B	47	45.622	18.488	-5.863	1.00	24.56	O

FIG. 4MM

ATOM	2336	CB	PRO	B	47	45.092	20.249	-8.379	1.00	24.56	C
ATOM	2337	CG	PRO	B	47	44.313	19.618	-9.487	1.00	24.65	C
ATOM	2338	CD	PRO	B	47	44.328	18.152	-9.181	1.00	24.51	C
ATOM	2339	N	VAL	B	48	47.469	19.772	-6.056	1.00	24.13	N
ATOM	2340	CA	VAL	B	48	47.947	19.531	-4.700	1.00	23.96	C
ATOM	2341	C	VAL	B	48	48.742	20.722	-4.148	1.00	24.14	C
ATOM	2342	O	VAL	B	48	49.158	21.606	-4.904	1.00	24.29	O
ATOM	2343	CB	VAL	B	48	48.780	18.204	-4.661	1.00	23.97	C
ATOM	2344	CG1	VAL	B	48	50.295	18.459	-4.708	1.00	23.50	C
ATOM	2345	CG2	VAL	B	48	48.376	17.345	-3.481	1.00	23.89	C
ATOM	2346	N	ALA	B	49	48.933	20.754	-2.831	1.00	24.09	N
ATOM	2347	CA	ALA	B	49	49.784	21.761	-2.203	1.00	24.09	C
ATOM	2348	C	ALA	B	49	51.132	21.155	-1.821	1.00	24.22	C
ATOM	2349	O	ALA	B	49	51.187	20.081	-1.224	1.00	24.15	O
ATOM	2350	CB	ALA	B	49	49.098	22.357	-0.982	1.00	23.99	C
ATOM	2351	N	ILE	B	50	52.214	21.843	-2.180	1.00	24.48	N
ATOM	2352	CA	ILE	B	50	53.566	21.409	-1.828	1.00	24.74	C
ATOM	2353	C	ILE	B	50	54.239	22.459	-0.952	1.00	24.99	C
ATOM	2354	O	ILE	B	50	54.338	23.620	-1.334	1.00	25.01	O
ATOM	2355	CB	ILE	B	50	54.425	21.126	-3.094	1.00	24.73	C
ATOM	2356	CG1	ILE	B	50	53.696	20.184	-4.056	1.00	24.79	C
ATOM	2357	CD1	ILE	B	50	53.807	20.587	-5.505	1.00	24.50	C
ATOM	2358	CG2	ILE	B	50	55.780	20.530	-2.712	1.00	24.47	C
ATOM	2359	N	LYS	B	51	54.691	22.043	0.227	1.00	25.49	N
ATOM	2360	CA	LYS	B	51	55.411	22.928	1.134	1.00	25.82	C
ATOM	2361	C	LYS	B	51	56.863	22.481	1.271	1.00	26.19	C
ATOM	2362	O	LYS	B	51	57.149	21.360	1.697	1.00	26.02	O
ATOM	2363	CB	LYS	B	51	54.729	22.981	2.502	1.00	25.80	C
ATOM	2364	N	GLU	B	52	57.773	23.373	0.896	1.00	26.64	N
ATOM	2365	CA	GLU	B	52	59.199	23.096	0.940	1.00	27.12	C
ATOM	2366	C	GLU	B	52	59.835	23.899	2.065	1.00	27.24	C
ATOM	2367	O	GLU	B	52	59.854	25.134	2.023	1.00	27.28	O
ATOM	2368	CB	GLU	B	52	59.836	23.448	-0.405	1.00	27.40	C
ATOM	2369	CG	GLU	B	52	61.252	22.931	-0.593	1.00	28.38	C
ATOM	2370	CD	GLU	B	52	61.769	23.156	-1.999	1.00	29.42	C
ATOM	2371	OE1	GLU	B	52	61.627	24.287	-2.522	1.00	29.75	O
ATOM	2372	OE2	GLU	B	52	62.317	22.197	-2.583	1.00	30.05	O
ATOM	2373	N	LEU	B	53	60.348	23.191	3.069	1.00	27.29	N
ATOM	2374	CA	LEU	B	53	60.956	23.824	4.238	1.00	27.37	C
ATOM	2375	C	LEU	B	53	62.152	24.688	3.850	1.00	27.87	C
ATOM	2376	O	LEU	B	53	62.920	24.335	2.952	1.00	28.04	O
ATOM	2377	CB	LEU	B	53	61.373	22.773	5.274	1.00	27.04	C
ATOM	2378	CG	LEU	B	53	60.352	21.766	5.832	1.00	26.54	C
ATOM	2379	CD1	LEU	B	53	60.925	21.073	7.065	1.00	26.17	C
ATOM	2380	CD2	LEU	B	53	58.997	22.395	6.161	1.00	25.66	C
ATOM	2381	N	ARG	B	54	62.297	25.823	4.531	1.00	28.51	N
ATOM	2382	CA	ARG	B	54	63.370	26.782	4.249	1.00	29.00	C
ATOM	2383	C	ARG	B	54	64.755	26.212	4.539	1.00	28.95	C
ATOM	2384	O	ARG	B	54	65.747	26.653	3.951	1.00	29.33	O
ATOM	2385	CB	ARG	B	54	63.163	28.090	5.025	1.00	29.38	C
ATOM	2386	CG	ARG	B	54	62.529	27.924	6.401	1.00	30.65	C
ATOM	2387	CD	ARG	B	54	63.325	28.546	7.534	1.00	32.35	C
ATOM	2388	NE	ARG	B	54	62.677	29.745	8.061	1.00	33.88	N
ATOM	2389	CZ	ARG	B	54	62.675	30.103	9.342	1.00	34.80	C
ATOM	2390	NH1	ARG	B	54	62.053	31.216	9.715	1.00	35.20	N
ATOM	2391	NH2	ARG	B	54	63.282	29.352	10.255	1.00	35.03	N
ATOM	2392	N	GLU	B	55	64.817	25.239	5.446	1.00	28.69	N
ATOM	2393	CA	GLU	B	55	66.070	24.560	5.768	1.00	28.61	C
ATOM	2394	C	GLU	B	55	66.053	23.114	5.279	1.00	28.60	C
ATOM	2395	O	GLU	B	55	65.046	22.632	4.757	1.00	28.57	O

FIG. 4NN



ATOM	2396	CB	GLU	B	55	66.336	24.604	7.274	1.00	28.56	C
ATOM	2397	N	LYS	B	63	65.778	10.560	9.002	1.00	30.12	N
ATOM	2398	CA	LYS	B	63	65.123	9.381	9.558	1.00	30.00	C
ATOM	2399	C	LYS	B	63	63.989	9.762	10.509	1.00	30.00	C
ATOM	2400	O	LYS	B	63	62.857	9.301	10.348	1.00	30.03	O
ATOM	2401	CB	LYS	B	63	66.140	8.487	10.272	1.00	29.90	C
ATOM	2402	N	GLU	B	64	64.302	10.604	11.493	1.00	30.01	N
ATOM	2403	CA	GLU	B	64	63.332	11.037	12.500	1.00	29.98	C
ATOM	2404	C	GLU	B	64	62.302	12.005	11.917	1.00	29.81	C
ATOM	2405	O	GLU	B	64	61.177	12.096	12.414	1.00	29.67	O
ATOM	2406	CB	GLU	B	64	64.044	11.672	13.698	1.00	30.05	C
ATOM	2407	N	ILE	B	65	62.703	12.722	10.868	1.00	29.64	N
ATOM	2408	CA	ILE	B	65	61.807	13.593	10.106	1.00	29.46	C
ATOM	2409	C	ILE	B	65	60.683	12.774	9.462	1.00	29.27	C
ATOM	2410	O	ILE	B	65	59.520	13.187	9.475	1.00	29.16	O
ATOM	2411	CB	ILE	B	65	62.594	14.374	9.022	1.00	29.61	C
ATOM	2412	CG1	ILE	B	65	63.901	14.934	9.592	1.00	29.86	C
ATOM	2413	CD1	ILE	B	65	65.146	14.350	8.953	1.00	30.24	C
ATOM	2414	CG2	ILE	B	65	61.747	15.503	8.440	1.00	29.75	C
ATOM	2415	N	LEU	B	66	61.048	11.616	8.907	1.00	28.93	N
ATOM	2416	CA	LEU	B	66	60.096	10.680	8.312	1.00	28.66	C
ATOM	2417	C	LEU	B	66	59.178	10.072	9.371	1.00	28.51	C
ATOM	2418	O	LEU	B	66	57.992	9.856	9.118	1.00	28.64	O
ATOM	2419	CB	LEU	B	66	60.834	9.574	7.549	1.00	28.74	C
ATOM	2420	CG	LEU	B	66	60.010	8.543	6.769	1.00	28.85	C
ATOM	2421	CD1	LEU	B	66	60.105	8.787	5.274	1.00	29.23	C
ATOM	2422	CD2	LEU	B	66	60.469	7.134	7.102	1.00	29.04	C
ATOM	2423	N	ASP	B	67	59.730	9.803	10.553	1.00	28.24	N
ATOM	2424	CA	ASP	B	67	58.951	9.261	11.665	1.00	27.91	C
ATOM	2425	C	ASP	B	67	57.893	10.255	12.134	1.00	27.44	C
ATOM	2426	O	ASP	B	67	56.780	9.862	12.489	1.00	27.47	O
ATOM	2427	CB	ASP	B	67	59.861	8.860	12.826	1.00	28.21	C
ATOM	2428	CG	ASP	B	67	60.162	7.372	12.846	1.00	29.13	C
ATOM	2429	OD1	ASP	B	67	61.339	7.010	13.066	1.00	30.16	O
ATOM	2430	OD2	ASP	B	67	59.295	6.488	12.658	1.00	29.78	O
ATOM	2431	N	GLU	B	68	58.249	11.539	12.120	1.00	26.75	N
ATOM	2432	CA	GLU	B	68	57.320	12.617	12.446	1.00	26.21	C
ATOM	2433	C	GLU	B	68	56.264	12.790	11.355	1.00	25.93	C
ATOM	2434	O	GLU	B	68	55.138	13.210	11.632	1.00	25.86	O
ATOM	2435	CB	GLU	B	68	58.076	13.930	12.659	1.00	26.13	C
ATOM	2436	N	ALA	B	69	56.634	12.464	10.119	1.00	25.37	N
ATOM	2437	CA	ALA	B	69	55.713	12.540	8.988	1.00	24.87	C
ATOM	2438	C	ALA	B	69	54.645	11.448	9.049	1.00	24.63	C
ATOM	2439	O	ALA	B	69	53.526	11.644	8.566	1.00	24.51	O
ATOM	2440	CB	ALA	B	69	56.472	12.470	7.678	1.00	24.81	C
ATOM	2441	N	TYR	B	70	54.994	10.311	9.650	1.00	24.18	N
ATOM	2442	CA	TYR	B	70	54.066	9.190	9.799	1.00	23.84	C
ATOM	2443	C	TYR	B	70	52.915	9.508	10.753	1.00	23.49	C
ATOM	2444	O	TYR	B	70	51.761	9.188	10.456	1.00	23.32	O
ATOM	2445	CB	TYR	B	70	54.799	7.915	10.237	1.00	23.91	C
ATOM	2446	CG	TYR	B	70	55.306	7.080	9.080	1.00	23.87	C
ATOM	2447	CD1	TYR	B	70	54.422	6.410	8.234	1.00	23.97	C
ATOM	2448	CE1	TYR	B	70	54.887	5.648	7.162	1.00	23.97	C
ATOM	2449	CZ	TYR	B	70	56.250	5.551	6.935	1.00	23.96	C
ATOM	2450	OH	TYR	B	70	56.721	4.799	5.884	1.00	24.29	O
ATOM	2451	CE2	TYR	B	70	57.145	6.206	7.761	1.00	23.92	C
ATOM	2452	CD2	TYR	B	70	56.671	6.966	8.826	1.00	24.06	C
ATOM	2453	N	VAL	B	71	53.230	10.138	11.886	1.00	23.05	N
ATOM	2454	CA	VAL	B	71	52.200	10.587	12.827	1.00	22.77	C
ATOM	2455	C	VAL	B	71	51.390	11.739	12.224	1.00	22.40	C

FIG. 400

ATOM	2456	O	VAL	B	71	50.174	11.822	12.422	1.00	22.62	O
ATOM	2457	CB	VAL	B	71	52.772	10.931	14.250	1.00	22.74	C
ATOM	2458	CG1	VAL	B	71	53.773	12.070	14.207	1.00	23.13	C
ATOM	2459	CG2	VAL	B	71	51.651	11.249	15.235	1.00	22.86	C
ATOM	2460	N	MET	B	72	52.069	12.600	11.467	1.00	21.88	N
ATOM	2461	CA	MET	B	72	51.422	13.685	10.736	1.00	21.55	C
ATOM	2462	C	MET	B	72	50.433	13.158	9.699	1.00	21.36	C
ATOM	2463	O	MET	B	72	49.385	13.762	9.472	1.00	21.11	O
ATOM	2464	CB	MET	B	72	52.467	14.565	10.052	1.00	21.63	C
ATOM	2465	CG	MET	B	72	52.969	15.709	10.910	1.00	21.62	C
ATOM	2466	SD	MET	B	72	54.562	16.324	10.351	1.00	22.13	S
ATOM	2467	CE	MET	B	72	54.058	17.466	9.116	1.00	21.51	C
ATOM	2468	N	ALA	B	73	50.774	12.026	9.083	1.00	21.09	N
ATOM	2469	CA	ALA	B	73	49.915	11.378	8.095	1.00	20.63	C
ATOM	2470	C	ALA	B	73	48.847	10.486	8.722	1.00	20.41	C
ATOM	2471	O	ALA	B	73	47.914	10.059	8.038	1.00	20.42	O
ATOM	2472	CB	ALA	B	73	50.749	10.582	7.123	1.00	20.70	C
ATOM	2473	N	SER	B	74	48.989	10.196	10.014	1.00	20.08	N
ATOM	2474	CA	SER	B	74	48.030	9.345	10.716	1.00	19.66	C
ATOM	2475	C	SER	B	74	46.854	10.157	11.247	1.00	19.50	C
ATOM	2476	O	SER	B	74	45.828	9.593	11.645	1.00	19.48	O
ATOM	2477	CB	SER	B	74	48.709	8.562	11.849	1.00	19.56	C
ATOM	2478	OG	SER	B	74	48.996	9.388	12.964	1.00	19.37	O
ATOM	2479	N	VAL	B	75	47.017	11.480	11.248	1.00	19.07	N
ATOM	2480	CA	VAL	B	75	45.996	12.404	11.735	1.00	18.77	C
ATOM	2481	C	VAL	B	75	44.693	12.257	10.951	1.00	18.64	C
ATOM	2482	O	VAL	B	75	44.611	12.595	9.770	1.00	18.83	O
ATOM	2483	CB	VAL	B	75	46.501	13.872	11.719	1.00	18.82	C
ATOM	2484	CG1	VAL	B	75	45.350	14.854	11.885	1.00	18.76	C
ATOM	2485	CG2	VAL	B	75	47.535	14.084	12.815	1.00	18.78	C
ATOM	2486	N	ASP	B	76	43.682	11.729	11.628	1.00	18.53	N
ATOM	2487	CA	ASP	B	76	42.377	11.516	11.024	1.00	18.29	C
ATOM	2488	C	ASP	B	76	41.298	12.265	11.807	1.00	17.84	C
ATOM	2489	O	ASP	B	76	40.775	11.763	12.805	1.00	17.73	O
ATOM	2490	CB	ASP	B	76	42.073	10.018	10.946	1.00	18.50	C
ATOM	2491	CG	ASP	B	76	40.947	9.698	9.987	1.00	19.04	C
ATOM	2492	OD1	ASP	B	76	40.583	10.569	9.167	1.00	19.61	O
ATOM	2493	OD2	ASP	B	76	40.364	8.593	9.981	1.00	19.97	O
ATOM	2494	N	ASN	B	77	40.993	13.477	11.347	1.00	17.35	N
ATOM	2495	CA	ASN	B	77	39.979	14.337	11.952	1.00	17.09	C
ATOM	2496	C	ASN	B	77	39.427	15.327	10.924	1.00	16.97	C
ATOM	2497	O	ASN	B	77	40.200	15.938	10.183	1.00	16.85	O
ATOM	2498	CB	ASN	B	77	40.554	15.092	13.157	1.00	17.00	C
ATOM	2499	CG	ASN	B	77	39.495	15.860	13.929	1.00	16.91	C
ATOM	2500	OD1	ASN	B	77	39.183	17.007	13.609	1.00	16.63	O
ATOM	2501	ND2	ASN	B	77	38.933	15.226	14.951	1.00	17.35	N
ATOM	2502	N	PRO	B	78	38.100	15.482	10.880	1.00	16.91	N
ATOM	2503	CA	PRO	B	78	37.446	16.410	9.941	1.00	16.93	C
ATOM	2504	C	PRO	B	78	37.894	17.870	10.073	1.00	17.03	C
ATOM	2505	O	PRO	B	78	37.616	18.670	9.179	1.00	16.85	O
ATOM	2506	CB	PRO	B	78	35.960	16.292	10.308	1.00	16.95	C
ATOM	2507	CG	PRO	B	78	35.830	14.978	10.994	1.00	16.68	C
ATOM	2508	CD	PRO	B	78	37.118	14.759	11.710	1.00	16.84	C
ATOM	2509	N	HIS	B	79	38.576	18.208	11.164	1.00	17.24	N
ATOM	2510	CA	HIS	B	79	38.994	19.588	11.399	1.00	17.45	C
ATOM	2511	C	HIS	B	79	40.508	19.772	11.531	1.00	17.57	C
ATOM	2512	O	HIS	B	79	40.973	20.834	11.949	1.00	17.58	O
ATOM	2513	CB	HIS	B	79	38.246	20.172	12.602	1.00	17.43	C
ATOM	2514	CG	HIS	B	79	36.758	20.152	12.444	1.00	17.41	C
ATOM	2515	ND1	HIS	B	79	36.112	20.784	11.404	1.00	17.41	N

FIG. 4PP

ATOM	2516	CE1	HIS	B	79	34.811	20.587	11.511	1.00	17.51	C
ATOM	2517	NE2	HIS	B	79	34.589	19.849	12.583	1.00	17.39	N
ATOM	2518	CD2	HIS	B	79	35.791	19.559	13.182	1.00	17.34	C
ATOM	2519	N	VAL	B	80	41.268	18.736	11.175	1.00	17.71	N
ATOM	2520	CA	VAL	B	80	42.720	18.848	11.033	1.00	18.13	C
ATOM	2521	C	VAL	B	80	43.138	18.311	9.665	1.00	18.46	C
ATOM	2522	O	VAL	B	80	42.771	17.195	9.294	1.00	18.65	O
ATOM	2523	CB	VAL	B	80	43.510	18.100	12.148	1.00	18.16	C
ATOM	2524	CG1	VAL	B	80	44.978	18.517	12.134	1.00	18.02	C
ATOM	2525	CG2	VAL	B	80	42.911	18.343	13.528	1.00	17.79	C
ATOM	2526	N	CYS	B	81	43.893	19.114	8.920	1.00	18.84	N
ATOM	2527	CA	CYS	B	81	44.410	18.706	7.614	1.00	19.24	C
ATOM	2528	C	CYS	B	81	45.411	17.572	7.772	1.00	19.26	C
ATOM	2529	O	CYS	B	81	46.147	17.526	8.749	1.00	19.30	O
ATOM	2530	CB	CYS	B	81	45.066	19.884	6.898	1.00	19.33	C
ATOM	2531	SG	CYS	B	81	43.932	21.220	6.469	1.00	19.69	S
ATOM	2532	N	ARG	B	82	45.424	16.659	6.808	1.00	19.54	N
ATOM	2533	CA	ARG	B	82	46.262	15.467	6.867	1.00	19.86	C
ATOM	2534	C	ARG	B	82	47.445	15.591	5.912	1.00	20.02	C
ATOM	2535	O	ARG	B	82	47.330	16.198	4.845	1.00	20.28	O
ATOM	2536	CB	ARG	B	82	45.421	14.235	6.511	1.00	19.91	C
ATOM	2537	CG	ARG	B	82	46.039	12.888	6.854	1.00	20.11	C
ATOM	2538	CD	ARG	B	82	45.336	11.707	6.184	1.00	20.60	C
ATOM	2539	NE	ARG	B	82	46.261	10.623	5.854	1.00	20.98	N
ATOM	2540	CZ	ARG	B	82	46.402	10.082	4.647	1.00	21.13	C
ATOM	2541	NH1	ARG	B	82	45.682	10.511	3.620	1.00	21.34	N
ATOM	2542	NH2	ARG	B	82	47.273	9.103	4.464	1.00	21.49	N
ATOM	2543	N	LEU	B	83	48.583	15.026	6.306	1.00	20.21	N
ATOM	2544	CA	LEU	B	83	49.722	14.902	5.404	1.00	20.33	C
ATOM	2545	C	LEU	B	83	49.494	13.715	4.478	1.00	20.42	C
ATOM	2546	O	LEU	B	83	49.357	12.577	4.935	1.00	20.56	O
ATOM	2547	CB	LEU	B	83	51.035	14.741	6.179	1.00	20.20	C
ATOM	2548	CG	LEU	B	83	52.332	14.813	5.359	1.00	20.36	C
ATOM	2549	CD1	LEU	B	83	52.515	16.180	4.702	1.00	20.37	C
ATOM	2550	CD2	LEU	B	83	53.536	14.473	6.219	1.00	20.49	C
ATOM	2551	N	LEU	B	84	49.434	13.991	3.179	1.00	20.41	N
ATOM	2552	CA	LEU	B	84	49.234	12.946	2.182	1.00	20.44	C
ATOM	2553	C	LEU	B	84	50.548	12.244	1.851	1.00	20.54	C
ATOM	2554	O	LEU	B	84	50.575	11.024	1.682	1.00	20.69	O
ATOM	2555	CB	LEU	B	84	48.587	13.507	0.908	1.00	20.45	C
ATOM	2556	CG	LEU	B	84	47.294	14.333	0.997	1.00	20.58	C
ATOM	2557	CD1	LEU	B	84	46.972	14.930	-0.360	1.00	20.93	C
ATOM	2558	CD2	LEU	B	84	46.108	13.520	1.511	1.00	20.23	C
ATOM	2559	N	GLY	B	85	51.633	13.013	1.766	1.00	20.51	N
ATOM	2560	CA	GLY	B	85	52.925	12.463	1.398	1.00	20.68	C
ATOM	2561	C	GLY	B	85	54.140	13.314	1.727	1.00	20.81	C
ATOM	2562	O	GLY	B	85	54.017	14.456	2.175	1.00	20.72	O
ATOM	2563	N	ILE	B	86	55.319	12.741	1.493	1.00	20.93	N
ATOM	2564	CA	ILE	B	86	56.593	13.412	1.751	1.00	21.14	C
ATOM	2565	C	ILE	B	86	57.639	13.056	0.687	1.00	21.56	C
ATOM	2566	O	ILE	B	86	57.555	12.007	0.044	1.00	21.49	O
ATOM	2567	CB	ILE	B	86	57.107	13.090	3.196	1.00	21.03	C
ATOM	2568	CG1	ILE	B	86	58.210	14.068	3.612	1.00	20.91	C
ATOM	2569	CD1	ILE	B	86	58.426	14.175	5.105	1.00	21.16	C
ATOM	2570	CG2	ILE	B	86	57.568	11.624	3.322	1.00	20.69	C
ATOM	2571	N	CYS	B	87	58.606	13.951	0.494	1.00	22.26	N
ATOM	2572	CA	CYS	B	87	59.760	13.684	-0.360	1.00	22.87	C
ATOM	2573	C	CYS	B	87	61.014	14.298	0.248	1.00	23.09	C
ATOM	2574	O	CYS	B	87	61.115	15.519	0.387	1.00	23.42	O
ATOM	2575	CB	CYS	B	87	59.536	14.221	-1.772	1.00	22.92	C

FIG. 4QQ

ATOM	2576	SG	CYS	B	87	60.881	13.836	-2.922	1.00	24.10	S
ATOM	2577	N	LEU	B	88	61.964	13.440	0.607	1.00	23.42	N
ATOM	2578	CA	LEU	B	88	63.201	13.871	1.254	1.00	23.82	C
ATOM	2579	C	LEU	B	88	64.388	13.802	0.298	1.00	23.93	C
ATOM	2580	O	LEU	B	88	64.498	12.869	-0.498	1.00	24.28	O
ATOM	2581	CB	LEU	B	88	63.476	13.022	2.498	1.00	23.75	C
ATOM	2582	CG	LEU	B	88	62.455	13.123	3.631	1.00	23.54	C
ATOM	2583	CD1	LEU	B	88	62.037	11.736	4.082	1.00	23.49	C
ATOM	2584	CD2	LEU	B	88	63.018	13.923	4.794	1.00	23.51	C
ATOM	2585	N	VAL	B	92	63.403	18.650	2.176	1.00	22.16	N
ATOM	2586	CA	VAL	B	92	62.142	18.200	2.760	1.00	22.16	C
ATOM	2587	C	VAL	B	92	60.972	18.893	2.068	1.00	21.94	C
ATOM	2588	O	VAL	B	92	60.873	20.122	2.074	1.00	21.95	O
ATOM	2589	CB	VAL	B	92	62.081	18.453	4.293	1.00	22.29	C
ATOM	2590	CG1	VAL	B	92	61.048	17.549	4.952	1.00	22.26	C
ATOM	2591	CG2	VAL	B	92	63.447	18.242	4.934	1.00	22.88	C
ATOM	2592	N	GLN	B	93	60.096	18.093	1.464	1.00	21.75	N
ATOM	2593	CA	GLN	B	93	58.944	18.608	0.731	1.00	21.48	C
ATOM	2594	C	GLN	B	93	57.666	17.910	1.178	1.00	21.26	C
ATOM	2595	O	GLN	B	93	57.556	16.684	1.104	1.00	21.27	O
ATOM	2596	CB	GLN	B	93	59.149	18.446	-0.778	1.00	21.61	C
ATOM	2597	CG	GLN	B	93	60.103	19.464	-1.384	1.00	21.92	C
ATOM	2598	CD	GLN	B	93	60.099	19.444	-2.897	1.00	22.34	C
ATOM	2599	OE1	GLN	B	93	59.216	20.029	-3.528	1.00	22.32	O
ATOM	2600	NE2	GLN	B	93	61.085	18.772	-3.485	1.00	22.27	N
ATOM	2601	N	LEU	B	94	56.707	18.702	1.646	1.00	21.02	N
ATOM	2602	CA	LEU	B	94	55.459	18.174	2.189	1.00	20.82	C
ATOM	2603	C	LEU	B	94	54.289	18.444	1.251	1.00	20.71	C
ATOM	2604	O	LEU	B	94	54.091	19.571	0.797	1.00	20.41	O
ATOM	2605	CB	LEU	B	94	55.180	18.754	3.579	1.00	20.74	C
ATOM	2606	CG	LEU	B	94	56.273	18.565	4.637	1.00	20.89	C
ATOM	2607	CD1	LEU	B	94	56.307	19.752	5.579	1.00	20.79	C
ATOM	2608	CD2	LEU	B	94	56.098	17.262	5.407	1.00	20.65	C
ATOM	2609	N	ILE	B	95	53.525	17.395	0.966	1.00	20.61	N
ATOM	2610	CA	ILE	B	95	52.394	17.482	0.050	1.00	20.57	C
ATOM	2611	C	ILE	B	95	51.074	17.203	0.769	1.00	20.45	C
ATOM	2612	O	ILE	B	95	50.903	16.161	1.408	1.00	20.36	O
ATOM	2613	CB	ILE	B	95	52.604	16.568	-1.202	1.00	20.61	C
ATOM	2614	CG1	ILE	B	95	51.279	16.005	-1.725	1.00	20.59	C
ATOM	2615	CD1	ILE	B	95	51.385	15.339	-3.074	1.00	21.15	C
ATOM	2616	CG2	ILE	B	95	53.597	15.457	-0.907	1.00	20.84	C
ATOM	2617	N	THR	B	96	50.158	18.163	0.671	1.00	20.38	N
ATOM	2618	CA	THR	B	96	48.836	18.063	1.283	1.00	20.31	C
ATOM	2619	C	THR	B	96	47.754	18.421	0.270	1.00	20.16	C
ATOM	2620	O	THR	B	96	48.052	18.866	-0.839	1.00	19.97	O
ATOM	2621	CB	THR	B	96	48.724	18.993	2.517	1.00	20.47	C
ATOM	2622	OG1	THR	B	96	49.302	20.272	2.219	1.00	20.71	O
ATOM	2623	CG2	THR	B	96	49.565	18.470	3.682	1.00	20.47	C
ATOM	2624	N	GLN	B	97	46.498	18.222	0.658	1.00	20.23	N
ATOM	2625	CA	GLN	B	97	45.363	18.599	-0.174	1.00	20.15	C
ATOM	2626	C	GLN	B	97	45.330	20.107	-0.409	1.00	19.95	C
ATOM	2627	O	GLN	B	97	45.513	20.902	0.519	1.00	19.89	O
ATOM	2628	CB	GLN	B	97	44.054	18.139	0.464	1.00	20.26	C
ATOM	2629	CG	GLN	B	97	42.886	18.031	-0.513	1.00	20.90	C
ATOM	2630	CD	GLN	B	97	41.549	17.837	0.182	1.00	21.44	C
ATOM	2631	OE1	GLN	B	97	41.498	17.491	1.363	1.00	21.97	O
ATOM	2632	NE2	GLN	B	97	40.464	18.059	-0.550	1.00	21.49	N
ATOM	2633	N	LEU	B	98	45.104	20.484	-1.661	1.00	19.76	N
ATOM	2634	CA	LEU	B	98	44.974	21.882	-2.038	1.00	19.64	C
ATOM	2635	C	LEU	B	98	43.578	22.392	-1.695	1.00	19.59	C

FIG. 4RR

ATOM	2636	O	LEU	B	98	42.576	21.739	-1.997	1.00	19.42	O
ATOM	2637	CB	LEU	B	98	45.263	22.058	-3.531	1.00	19.59	C
ATOM	2638	CG	LEU	B	98	45.305	23.465	-4.128	1.00	19.53	C
ATOM	2639	CD1	LEU	B	98	46.346	24.340	-3.444	1.00	19.49	C
ATOM	2640	CD2	LEU	B	98	45.586	23.362	-5.615	1.00	20.14	C
ATOM	2641	N	MET	B	99	43.527	23.555	-1.052	1.00	19.48	N
ATOM	2642	CA	MET	B	99	42.266	24.182	-0.682	1.00	19.59	C
ATOM	2643	C	MET	B	99	42.120	25.515	-1.422	1.00	19.36	C
ATOM	2644	O	MET	B	99	42.769	26.504	-1.068	1.00	19.21	O
ATOM	2645	CB	MET	B	99	42.170	24.369	0.840	1.00	19.83	C
ATOM	2646	CG	MET	B	99	42.422	23.094	1.647	1.00	20.31	C
ATOM	2647	SD	MET	B	99	40.915	22.226	2.130	1.00	21.60	S
ATOM	2648	CE	MET	B	99	41.579	20.613	2.522	1.00	22.18	C
ATOM	2649	N	PRO	B	100	41.279	25.529	-2.458	1.00	19.09	N
ATOM	2650	CA	PRO	B	100	41.118	26.701	-3.328	1.00	18.91	C
ATOM	2651	C	PRO	B	100	40.550	27.939	-2.636	1.00	18.85	C
ATOM	2652	O	PRO	B	100	40.681	29.030	-3.188	1.00	18.91	O
ATOM	2653	CB	PRO	B	100	40.135	26.207	-4.394	1.00	18.90	C
ATOM	2654	CG	PRO	B	100	39.400	25.101	-3.742	1.00	18.85	C
ATOM	2655	CD	PRO	B	100	40.420	24.410	-2.888	1.00	19.12	C
ATOM	2656	N	PHE	B	101	39.943	27.779	-1.462	1.00	18.69	N
ATOM	2657	CA	PHE	B	101	39.309	28.902	-0.769	1.00	18.46	C
ATOM	2658	C	PHE	B	101	40.204	29.585	0.273	1.00	18.39	C
ATOM	2659	O	PHE	B	101	39.830	30.615	0.838	1.00	18.52	O
ATOM	2660	CB	PHE	B	101	37.963	28.478	-0.169	1.00	18.51	C
ATOM	2661	CG	PHE	B	101	37.016	27.882	-1.173	1.00	18.48	C
ATOM	2662	CD1	PHE	B	101	36.847	28.467	-2.430	1.00	18.67	C
ATOM	2663	CE1	PHE	B	101	35.979	27.912	-3.365	1.00	18.71	C
ATOM	2664	CZ	PHE	B	101	35.270	26.760	-3.049	1.00	18.60	C
ATOM	2665	CE2	PHE	B	101	35.431	26.169	-1.801	1.00	18.57	C
ATOM	2666	CD2	PHE	B	101	36.301	26.731	-0.871	1.00	18.34	C
ATOM	2667	N	GLY	B	102	41.379	29.008	0.517	1.00	18.15	N
ATOM	2668	CA	GLY	B	102	42.400	29.636	1.338	1.00	17.73	C
ATOM	2669	C	GLY	B	102	42.191	29.539	2.834	1.00	17.54	C
ATOM	2670	O	GLY	B	102	41.487	28.649	3.318	1.00	17.50	O
ATOM	2671	N	CYS	B	103	42.813	30.464	3.563	1.00	17.35	N
ATOM	2672	CA	CYS	B	103	42.757	30.482	5.025	1.00	17.23	C
ATOM	2673	C	CYS	B	103	41.559	31.265	5.561	1.00	17.28	C
ATOM	2674	O	CYS	B	103	40.886	31.978	4.814	1.00	17.12	O
ATOM	2675	CB	CYS	B	103	44.072	31.015	5.616	1.00	17.32	C
ATOM	2676	SG	CYS	B	103	44.527	32.701	5.135	1.00	16.78	S
ATOM	2677	N	LEU	B	104	41.302	31.121	6.860	1.00	17.44	N
ATOM	2678	CA	LEU	B	104	40.159	31.757	7.514	1.00	17.62	C
ATOM	2679	C	LEU	B	104	40.385	33.242	7.813	1.00	17.78	C
ATOM	2680	O	LEU	B	104	39.432	34.021	7.834	1.00	17.86	O
ATOM	2681	CB	LEU	B	104	39.785	31.000	8.795	1.00	17.54	C
ATOM	2682	CG	LEU	B	104	38.447	31.275	9.495	1.00	17.46	C
ATOM	2683	CD1	LEU	B	104	37.259	31.217	8.536	1.00	17.14	C
ATOM	2684	CD2	LEU	B	104	38.257	30.298	10.651	1.00	17.22	C
ATOM	2685	N	LEU	B	105	41.641	33.621	8.048	1.00	17.91	N
ATOM	2686	CA	LEU	B	105	42.006	35.017	8.290	1.00	18.02	C
ATOM	2687	C	LEU	B	105	41.674	35.917	7.092	1.00	18.22	C
ATOM	2688	O	LEU	B	105	41.106	36.995	7.265	1.00	18.43	O
ATOM	2689	CB	LEU	B	105	43.491	35.135	8.662	1.00	17.98	C
ATOM	2690	CG	LEU	B	105	44.044	36.524	9.002	1.00	17.89	C
ATOM	2691	CD1	LEU	B	105	43.593	36.980	10.387	1.00	18.20	C
ATOM	2692	CD2	LEU	B	105	45.560	36.542	8.899	1.00	17.28	C
ATOM	2693	N	ASP	B	106	42.027	35.477	5.885	1.00	18.14	N
ATOM	2694	CA	ASP	B	106	41.687	36.217	4.673	1.00	18.08	C
ATOM	2695	C	ASP	B	106	40.173	36.213	4.431	1.00	18.19	C

FIG. 4SS

ATOM	2696	O	ASP	B	106	39.610	37.213	3.982	1.00	18.20	O
ATOM	2697	CB	ASP	B	106	42.437	35.661	3.457	1.00	18.06	C
ATOM	2698	CG	ASP	B	106	43.957	35.828	3.565	1.00	18.47	C
ATOM	2699	OD1	ASP	B	106	44.442	36.529	4.481	1.00	18.85	O
ATOM	2700	OD2	ASP	B	106	44.754	35.285	2.773	1.00	18.03	O
ATOM	2701	N	TYR	B	107	39.521	35.095	4.750	1.00	18.27	N
ATOM	2702	CA	TYR	B	107	38.073	34.971	4.586	1.00	18.25	C
ATOM	2703	C	TYR	B	107	37.295	35.953	5.473	1.00	18.32	C
ATOM	2704	O	TYR	B	107	36.343	36.584	5.005	1.00	18.20	O
ATOM	2705	CB	TYR	B	107	37.601	33.528	4.822	1.00	18.06	C
ATOM	2706	CG	TYR	B	107	36.121	33.329	4.554	1.00	18.06	C
ATOM	2707	CD1	TYR	B	107	35.656	33.042	3.271	1.00	17.84	C
ATOM	2708	CE1	TYR	B	107	34.294	32.874	3.022	1.00	17.97	C
ATOM	2709	CZ	TYR	B	107	33.385	32.995	4.066	1.00	17.63	C
ATOM	2710	OH	TYR	B	107	32.038	32.829	3.831	1.00	17.31	O
ATOM	2711	CE2	TYR	B	107	33.824	33.282	5.346	1.00	17.32	C
ATOM	2712	CD2	TYR	B	107	35.183	33.447	5.584	1.00	17.82	C
ATOM	2713	N	VAL	B	108	37.699	36.078	6.739	1.00	18.40	N
ATOM	2714	CA	VAL	B	108	37.060	37.025	7.661	1.00	18.57	C
ATOM	2715	C	VAL	B	108	37.369	38.479	7.306	1.00	18.67	C
ATOM	2716	O	VAL	B	108	36.564	39.369	7.571	1.00	18.65	O
ATOM	2717	CB	VAL	B	108	37.368	36.744	9.173	1.00	18.53	C
ATOM	2718	CG1	VAL	B	108	36.831	35.381	9.600	1.00	18.69	C
ATOM	2719	CG2	VAL	B	108	38.852	36.874	9.494	1.00	18.02	C
ATOM	2720	N	ARG	B	109	38.534	38.703	6.705	1.00	18.99	N
ATOM	2721	CA	ARG	B	109	38.936	40.024	6.241	1.00	19.46	C
ATOM	2722	C	ARG	B	109	38.146	40.438	4.999	1.00	20.04	C
ATOM	2723	O	ARG	B	109	37.858	41.618	4.804	1.00	20.13	O
ATOM	2724	CB	ARG	B	109	40.435	40.040	5.940	1.00	19.30	C
ATOM	2725	CG	ARG	B	109	41.311	40.248	7.162	1.00	18.84	C
ATOM	2726	CD	ARG	B	109	42.798	40.238	6.866	1.00	18.38	C
ATOM	2727	NE	ARG	B	109	43.594	40.289	8.090	1.00	18.34	N
ATOM	2728	CZ	ARG	B	109	44.919	40.184	8.140	1.00	18.12	C
ATOM	2729	NH1	ARG	B	109	45.631	40.019	7.030	1.00	17.70	N
ATOM	2730	NH2	ARG	B	109	45.536	40.243	9.312	1.00	17.84	N
ATOM	2731	N	GLU	B	110	37.794	39.458	4.171	1.00	20.87	N
ATOM	2732	CA	GLU	B	110	37.071	39.709	2.928	1.00	21.60	C
ATOM	2733	C	GLU	B	110	35.569	39.876	3.145	1.00	22.25	C
ATOM	2734	O	GLU	B	110	34.916	40.624	2.417	1.00	22.54	O
ATOM	2735	CB	GLU	B	110	37.334	38.589	1.921	1.00	21.52	C
ATOM	2736	N	HIS	B	111	35.027	39.183	4.145	1.00	22.82	N
ATOM	2737	CA	HIS	B	111	33.587	39.193	4.396	1.00	23.38	C
ATOM	2738	C	HIS	B	111	33.210	39.779	5.761	1.00	23.75	C
ATOM	2739	O	HIS	B	111	32.297	39.284	6.425	1.00	24.02	O
ATOM	2740	CB	HIS	B	111	33.013	37.783	4.237	1.00	23.42	C
ATOM	2741	CG	HIS	B	111	33.257	37.181	2.890	1.00	23.81	C
ATOM	2742	ND1	HIS	B	111	34.409	36.490	2.584	1.00	24.33	N
ATOM	2743	CE1	HIS	B	111	34.353	36.079	1.330	1.00	24.04	C
ATOM	2744	NE2	HIS	B	111	33.204	36.475	0.812	1.00	23.96	N
ATOM	2745	CD2	HIS	B	111	32.501	37.168	1.767	1.00	24.20	C
ATOM	2746	N	LYS	B	112	33.902	40.846	6.161	1.00	24.06	N
ATOM	2747	CA	LYS	B	112	33.662	41.512	7.443	1.00	24.23	C
ATOM	2748	C	LYS	B	112	32.180	41.805	7.688	1.00	24.53	C
ATOM	2749	O	LYS	B	112	31.649	41.498	8.760	1.00	24.80	O
ATOM	2750	CB	LYS	B	112	34.458	42.818	7.534	1.00	24.18	C
ATOM	2751	CG	LYS	B	112	35.961	42.643	7.656	1.00	24.18	C
ATOM	2752	N	ASP	B	113	31.519	42.386	6.688	1.00	24.57	N
ATOM	2753	CA	ASP	B	113	30.127	42.813	6.826	1.00	24.85	C
ATOM	2754	C	ASP	B	113	29.096	41.740	6.472	1.00	24.82	C
ATOM	2755	O	ASP	B	113	27.902	42.034	6.378	1.00	25.13	O

FIG. 4TT

ATOM	2756	N	ASN	B	114	29.552	40.503	6.294	1.00	24.62	N
ATOM	2757	CA	ASN	B	114	28.686	39.418	5.836	1.00	24.36	C
ATOM	2758	C	ASN	B	114	28.683	38.182	6.739	1.00	24.12	C
ATOM	2759	O	ASN	B	114	27.770	37.358	6.668	1.00	24.02	O
ATOM	2760	CB	ASN	B	114	29.058	39.021	4.407	1.00	24.60	C
ATOM	2761	N	ILE	B	115	29.702	38.056	7.584	1.00	23.83	N
ATOM	2762	CA	ILE	B	115	29.812	36.907	8.477	1.00	23.51	C
ATOM	2763	C	ILE	B	115	28.903	37.056	9.700	1.00	23.34	C
ATOM	2764	O	ILE	B	115	28.963	38.059	10.416	1.00	23.07	O
ATOM	2765	CB	ILE	B	115	31.288	36.659	8.882	1.00	23.39	C
ATOM	2766	CG1	ILE	B	115	32.126	36.332	7.643	1.00	23.15	C
ATOM	2767	CD1	ILE	B	115	33.604	36.605	7.801	1.00	23.01	C
ATOM	2768	CG2	ILE	B	115	31.388	35.514	9.890	1.00	23.54	C
ATOM	2769	N	GLY	B	116	28.056	36.051	9.915	1.00	23.22	N
ATOM	2770	CA	GLY	B	116	27.140	36.032	11.042	1.00	23.09	C
ATOM	2771	C	GLY	B	116	27.760	35.433	12.290	1.00	23.12	C
ATOM	2772	O	GLY	B	116	28.814	34.790	12.225	1.00	23.04	O
ATOM	2773	N	SER	B	117	27.098	35.646	13.426	1.00	22.96	N
ATOM	2774	CA	SER	B	117	27.555	35.137	14.720	1.00	22.87	C
ATOM	2775	C	SER	B	117	27.519	33.612	14.810	1.00	22.68	C
ATOM	2776	O	SER	B	117	28.327	33.014	15.523	1.00	22.86	O
ATOM	2777	CB	SER	B	117	26.744	35.750	15.866	1.00	22.90	C
ATOM	2778	OG	SER	B	117	25.435	36.097	15.447	1.00	23.42	O
ATOM	2779	N	GLN	B	118	26.586	32.989	14.092	1.00	22.42	N
ATOM	2780	CA	GLN	B	118	26.490	31.530	14.052	1.00	22.18	C
ATOM	2781	C	GLN	B	118	27.730	30.904	13.409	1.00	21.88	C
ATOM	2782	O	GLN	B	118	28.264	29.917	13.919	1.00	21.95	O
ATOM	2783	CB	GLN	B	118	25.207	31.078	13.338	1.00	22.27	C
ATOM	2784	CG	GLN	B	118	24.991	29.558	13.278	1.00	22.98	C
ATOM	2785	CD	GLN	B	118	24.809	28.919	14.649	1.00	23.82	C
ATOM	2786	OE1	GLN	B	118	25.787	28.617	15.335	1.00	24.34	O
ATOM	2787	NE2	GLN	B	118	23.559	28.705	15.044	1.00	24.11	N
ATOM	2788	N	TYR	B	119	28.183	31.485	12.300	1.00	21.29	N
ATOM	2789	CA	TYR	B	119	29.392	31.030	11.621	1.00	20.92	C
ATOM	2790	C	TYR	B	119	30.635	31.274	12.472	1.00	20.67	C
ATOM	2791	O	TYR	B	119	31.511	30.414	12.562	1.00	20.72	O
ATOM	2792	CB	TYR	B	119	29.544	31.728	10.267	1.00	21.08	C
ATOM	2793	CG	TYR	B	119	28.788	31.067	9.134	1.00	21.26	C
ATOM	2794	CD1	TYR	B	119	29.408	30.127	8.315	1.00	21.56	C
ATOM	2795	CE1	TYR	B	119	28.720	29.517	7.268	1.00	21.68	C
ATOM	2796	CZ	TYR	B	119	27.397	29.851	7.033	1.00	21.81	C
ATOM	2797	OH	TYR	B	119	26.716	29.251	5.998	1.00	22.03	O
ATOM	2798	CE2	TYR	B	119	26.758	30.784	7.833	1.00	21.73	C
ATOM	2799	CD2	TYR	B	119	27.455	31.388	8.877	1.00	21.51	C
ATOM	2800	N	LEU	B	120	30.699	32.445	13.101	1.00	20.39	N
ATOM	2801	CA	LEU	B	120	31.836	32.818	13.938	1.00	20.10	C
ATOM	2802	C	LEU	B	120	32.042	31.841	15.092	1.00	20.02	C
ATOM	2803	O	LEU	B	120	33.153	31.356	15.309	1.00	19.87	O
ATOM	2804	CB	LEU	B	120	31.675	34.246	14.471	1.00	19.95	C
ATOM	2805	CG	LEU	B	120	32.001	35.410	13.528	1.00	19.91	C
ATOM	2806	CD1	LEU	B	120	31.516	36.726	14.116	1.00	19.65	C
ATOM	2807	CD2	LEU	B	120	33.491	35.488	13.185	1.00	19.49	C
ATOM	2808	N	LEU	B	121	30.964	31.546	15.814	1.00	20.01	N
ATOM	2809	CA	LEU	B	121	31.026	30.660	16.975	1.00	19.95	C
ATOM	2810	C	LEU	B	121	31.207	29.194	16.586	1.00	19.77	C
ATOM	2811	O	LEU	B	121	31.815	28.423	17.329	1.00	19.76	O
ATOM	2812	CB	LEU	B	121	29.791	30.840	17.868	1.00	19.94	C
ATOM	2813	CG	LEU	B	121	29.656	32.194	18.576	1.00	19.90	C
ATOM	2814	CD1	LEU	B	121	28.244	32.388	19.099	1.00	20.14	C
ATOM	2815	CD2	LEU	B	121	30.665	32.358	19.705	1.00	19.57	C

FIG. 4UU

ATOM	2816	N	ASN	B	122	30.683	28.821	15.420	1.00	19.62	N
ATOM	2817	CA	ASN	B	122	30.844	27.468	14.895	1.00	19.45	C
ATOM	2818	C	ASN	B	122	32.290	27.157	14.528	1.00	19.12	C
ATOM	2819	O	ASN	B	122	32.768	26.045	14.756	1.00	18.91	O
ATOM	2820	CB	ASN	B	122	29.928	27.238	13.692	1.00	19.72	C
ATOM	2821	CG	ASN	B	122	28.632	26.544	14.074	1.00	20.61	C
ATOM	2822	OD1	ASN	B	122	28.647	25.484	14.706	1.00	21.87	O
ATOM	2823	ND2	ASN	B	122	27.503	27.139	13.695	1.00	20.28	N
ATOM	2824	N	TRP	B	123	32.980	28.148	13.966	1.00	18.74	N
ATOM	2825	CA	TRP	B	123	34.396	28.020	13.643	1.00	18.47	C
ATOM	2826	C	TRP	B	123	35.207	27.767	14.908	1.00	18.22	C
ATOM	2827	O	TRP	B	123	36.106	26.929	14.917	1.00	18.04	O
ATOM	2828	CB	TRP	B	123	34.902	29.265	12.911	1.00	18.46	C
ATOM	2829	CG	TRP	B	123	34.348	29.418	11.517	1.00	18.58	C
ATOM	2830	CD1	TRP	B	123	33.917	28.418	10.687	1.00	18.75	C
ATOM	2831	NE1	TRP	B	123	33.478	28.944	9.495	1.00	18.82	N
ATOM	2832	CE2	TRP	B	123	33.623	30.306	9.530	1.00	18.59	C
ATOM	2833	CD2	TRP	B	123	34.169	30.640	10.791	1.00	18.39	C
ATOM	2834	CE3	TRP	B	123	34.412	31.991	11.077	1.00	18.66	C
ATOM	2835	CZ3	TRP	B	123	34.107	32.952	10.109	1.00	18.97	C
ATOM	2836	CH2	TRP	B	123	33.568	32.582	8.865	1.00	18.65	C
ATOM	2837	CZ2	TRP	B	123	33.320	31.269	8.557	1.00	18.57	C
ATOM	2838	N	CYS	B	124	34.856	28.479	15.976	1.00	18.17	N
ATOM	2839	CA	CYS	B	124	35.486	28.312	17.282	1.00	18.10	C
ATOM	2840	C	CYS	B	124	35.261	26.917	17.862	1.00	18.10	C
ATOM	2841	O	CYS	B	124	36.170	26.351	18.467	1.00	18.31	O
ATOM	2842	CB	CYS	B	124	34.985	29.378	18.254	1.00	18.05	C
ATOM	2843	SG	CYS	B	124	35.578	31.039	17.875	1.00	18.24	S
ATOM	2844	N	VAL	B	125	34.056	26.374	17.671	1.00	17.86	N
ATOM	2845	CA	VAL	B	125	33.742	24.999	18.066	1.00	17.67	C
ATOM	2846	C	VAL	B	125	34.603	24.012	17.283	1.00	17.58	C
ATOM	2847	O	VAL	B	125	35.269	23.161	17.871	1.00	17.89	O
ATOM	2848	CB	VAL	B	125	32.237	24.657	17.855	1.00	17.72	C
ATOM	2849	CG1	VAL	B	125	31.971	23.165	18.067	1.00	17.40	C
ATOM	2850	CG2	VAL	B	125	31.360	25.473	18.779	1.00	17.66	C
ATOM	2851	N	GLN	B	126	34.587	24.144	15.957	1.00	17.52	N
ATOM	2852	CA	GLN	B	126	35.318	23.250	15.057	1.00	17.19	C
ATOM	2853	C	GLN	B	126	36.829	23.275	15.298	1.00	16.88	C
ATOM	2854	O	GLN	B	126	37.473	22.224	15.317	1.00	16.64	O
ATOM	2855	CB	GLN	B	126	34.997	23.579	13.593	1.00	17.36	C
ATOM	2856	CG	GLN	B	126	33.527	23.375	13.216	1.00	17.55	C
ATOM	2857	CD	GLN	B	126	33.239	23.563	11.731	1.00	17.75	C
ATOM	2858	OE1	GLN	B	126	34.118	23.941	10.956	1.00	17.46	O
ATOM	2859	NE2	GLN	B	126	32.003	23.291	11.335	1.00	18.32	N
ATOM	2860	N	ILE	B	127	37.382	24.474	15.491	1.00	16.54	N
ATOM	2861	CA	ILE	B	127	38.805	24.638	15.801	1.00	16.23	C
ATOM	2862	C	ILE	B	127	39.158	23.975	17.137	1.00	16.00	C
ATOM	2863	O	ILE	B	127	40.196	23.321	17.262	1.00	15.76	O
ATOM	2864	CB	ILE	B	127	39.214	26.137	15.788	1.00	16.20	C
ATOM	2865	CG1	ILE	B	127	39.070	26.721	14.373	1.00	16.20	C
ATOM	2866	CD1	ILE	B	127	39.018	28.244	14.317	1.00	15.72	C
ATOM	2867	CG2	ILE	B	127	40.647	26.318	16.293	1.00	16.04	C
ATOM	2868	N	ALA	B	128	38.279	24.136	18.123	1.00	15.84	N
ATOM	2869	CA	ALA	B	128	38.450	23.501	19.426	1.00	15.76	C
ATOM	2870	C	ALA	B	128	38.404	21.974	19.322	1.00	15.68	C
ATOM	2871	O	ALA	B	128	39.105	21.281	20.056	1.00	15.52	O
ATOM	2872	CB	ALA	B	128	37.406	24.009	20.409	1.00	15.66	C
ATOM	2873	N	LYS	B	129	37.584	21.465	18.404	1.00	15.73	N
ATOM	2874	CA	LYS	B	129	37.468	20.027	18.161	1.00	15.84	C
ATOM	2875	C	LYS	B	129	38.739	19.434	17.547	1.00	15.85	C

FIG. 4VV



ATOM	2876	O	LYS	B	129	39.167	18.345	17.926	1.00	16.07	O
ATOM	2877	CB	LYS	B	129	36.263	19.728	17.268	1.00	15.82	C
ATOM	2878	CG	LYS	B	129	34.967	19.531	18.029	1.00	15.93	C
ATOM	2879	CD	LYS	B	129	33.783	19.410	17.084	1.00	15.72	C
ATOM	2880	CE	LYS	B	129	32.476	19.362	17.858	1.00	15.83	C
ATOM	2881	NZ	LYS	B	129	31.305	19.242	16.946	1.00	16.38	N
ATOM	2882	N	GLY	B	130	39.331	20.154	16.600	1.00	15.93	N
ATOM	2883	CA	GLY	B	130	40.568	19.727	15.972	1.00	15.97	C
ATOM	2884	C	GLY	B	130	41.735	19.725	16.940	1.00	16.03	C
ATOM	2885	O	GLY	B	130	42.549	18.801	16.941	1.00	16.07	O
ATOM	2886	N	MET	B	131	41.809	20.764	17.765	1.00	16.29	N
ATOM	2887	CA	MET	B	131	42.863	20.895	18.769	1.00	16.62	C
ATOM	2888	C	MET	B	131	42.734	19.869	19.897	1.00	16.73	C
ATOM	2889	O	MET	B	131	43.746	19.394	20.423	1.00	16.84	O
ATOM	2890	CB	MET	B	131	42.885	22.312	19.339	1.00	16.67	C
ATOM	2891	CG	MET	B	131	43.430	23.370	18.387	1.00	17.05	C
ATOM	2892	SD	MET	B	131	45.008	22.951	17.585	1.00	17.91	S
ATOM	2893	CE	MET	B	131	46.103	22.850	18.989	1.00	17.40	C
ATOM	2894	N	ASN	B	132	41.493	19.529	20.251	1.00	16.65	N
ATOM	2895	CA	ASN	B	132	41.211	18.486	21.237	1.00	16.95	C
ATOM	2896	C	ASN	B	132	41.600	17.092	20.742	1.00	17.17	C
ATOM	2897	O	ASN	B	132	42.005	16.235	21.532	1.00	17.06	O
ATOM	2898	CB	ASN	B	132	39.734	18.513	21.644	1.00	17.04	C
ATOM	2899	CG	ASN	B	132	39.374	17.415	22.638	1.00	17.08	C
ATOM	2900	OD1	ASN	B	132	39.711	17.494	23.820	1.00	17.27	O
ATOM	2901	ND2	ASN	B	132	38.688	16.385	22.158	1.00	16.77	N
ATOM	2902	N	TYR	B	133	41.470	16.876	19.435	1.00	17.40	N
ATOM	2903	CA	TYR	B	133	41.884	15.626	18.810	1.00	17.86	C
ATOM	2904	C	TYR	B	133	43.389	15.416	18.979	1.00	18.34	C
ATOM	2905	O	TYR	B	133	43.836	14.308	19.280	1.00	18.24	O
ATOM	2906	CB	TYR	B	133	41.493	15.605	17.323	1.00	17.73	C
ATOM	2907	CG	TYR	B	133	42.120	14.470	16.538	1.00	17.62	C
ATOM	2908	CD1	TYR	B	133	41.546	13.199	16.533	1.00	17.36	C
ATOM	2909	CE1	TYR	B	133	42.126	12.149	15.822	1.00	17.33	C
ATOM	2910	CZ	TYR	B	133	43.291	12.370	15.105	1.00	17.43	C
ATOM	2911	OH	TYR	B	133	43.867	11.339	14.400	1.00	17.21	O
ATOM	2912	CE2	TYR	B	133	43.881	13.625	15.095	1.00	17.75	C
ATOM	2913	CD2	TYR	B	133	43.295	14.667	15.810	1.00	17.67	C
ATOM	2914	N	LEU	B	134	44.155	16.491	18.790	1.00	19.19	N
ATOM	2915	CA	LEU	B	134	45.615	16.446	18.881	1.00	19.69	C
ATOM	2916	C	LEU	B	134	46.092	16.263	20.319	1.00	19.99	C
ATOM	2917	O	LEU	B	134	47.029	15.506	20.563	1.00	19.99	O
ATOM	2918	CB	LEU	B	134	46.251	17.700	18.260	1.00	19.75	C
ATOM	2919	CG	LEU	B	134	45.903	18.102	16.819	1.00	19.96	C
ATOM	2920	CD1	LEU	B	134	46.316	19.544	16.556	1.00	20.06	C
ATOM	2921	CD2	LEU	B	134	46.536	17.172	15.784	1.00	19.80	C
ATOM	2922	N	GLU	B	135	45.446	16.947	21.265	1.00	20.49	N
ATOM	2923	CA	GLU	B	135	45.793	16.813	22.682	1.00	21.01	C
ATOM	2924	C	GLU	B	135	45.592	15.384	23.184	1.00	21.11	C
ATOM	2925	O	GLU	B	135	46.452	14.842	23.878	1.00	21.37	O
ATOM	2926	CB	GLU	B	135	45.009	17.807	23.547	1.00	21.19	C
ATOM	2927	CG	GLU	B	135	45.281	17.670	25.043	1.00	21.71	C
ATOM	2928	CD	GLU	B	135	44.607	18.739	25.884	1.00	22.55	C
ATOM	2929	OE1	GLU	B	135	44.984	18.880	27.068	1.00	23.01	O
ATOM	2930	OE2	GLU	B	135	43.703	19.437	25.373	1.00	22.88	O
ATOM	2931	N	ASP	B	136	44.461	14.779	22.822	1.00	21.26	N
ATOM	2932	CA	ASP	B	136	44.170	13.384	23.156	1.00	21.22	C
ATOM	2933	C	ASP	B	136	45.202	12.441	22.548	1.00	21.29	C
ATOM	2934	O	ASP	B	136	45.417	11.331	23.041	1.00	21.52	O
ATOM	2935	CB	ASP	B	136	42.776	13.001	22.664	1.00	21.12	C

FIG. 4WW

ATOM	2936	CG	ASP	B	136	41.676	13.506	23.571	1.00	21.19	C
ATOM	2937	OD1	ASP	B	136	40.496	13.219	23.274	1.00	21.35	O
ATOM	2938	OD2	ASP	B	136	41.888	14.192	24.598	1.00	20.89	O
ATOM	2939	N	ARG	B	137	45.832	12.901	21.473	1.00	21.22	N
ATOM	2940	CA	ARG	B	137	46.881	12.156	20.797	1.00	21.19	C
ATOM	2941	C	ARG	B	137	48.273	12.553	21.287	1.00	21.50	C
ATOM	2942	O	ARG	B	137	49.276	12.034	20.792	1.00	21.78	O
ATOM	2943	CB	ARG	B	137	46.777	12.385	19.293	1.00	21.11	C
ATOM	2944	CG	ARG	B	137	45.720	11.541	18.622	1.00	20.57	C
ATOM	2945	CD	ARG	B	137	46.293	10.363	17.886	1.00	20.38	C
ATOM	2946	NE	ARG	B	137	46.161	10.528	16.448	1.00	20.23	N
ATOM	2947	CZ	ARG	B	137	47.039	10.101	15.555	1.00	20.44	C
ATOM	2948	NH1	ARG	B	137	48.146	9.475	15.933	1.00	20.25	N
ATOM	2949	NH2	ARG	B	137	46.805	10.304	14.270	1.00	21.11	N
ATOM	2950	N	ARG	B	138	48.323	13.470	22.258	1.00	21.46	N
ATOM	2951	CA	ARG	B	138	49.576	14.008	22.800	1.00	21.41	C
ATOM	2952	C	ARG	B	138	50.406	14.722	21.726	1.00	21.38	C
ATOM	2953	O	ARG	B	138	51.634	14.597	21.682	1.00	21.48	O
ATOM	2954	CB	ARG	B	138	50.395	12.914	23.507	1.00	21.43	C
ATOM	2955	CG	ARG	B	138	49.737	12.352	24.760	1.00	21.40	C
ATOM	2956	N	LEU	B	139	49.714	15.477	20.874	1.00	21.20	N
ATOM	2957	CA	LEU	B	139	50.327	16.223	19.779	1.00	20.98	C
ATOM	2958	C	LEU	B	139	50.226	17.729	20.023	1.00	20.89	C
ATOM	2959	O	LEU	B	139	49.163	18.237	20.394	1.00	21.12	O
ATOM	2960	CB	LEU	B	139	49.643	15.864	18.455	1.00	21.10	C
ATOM	2961	CG	LEU	B	139	50.241	14.808	17.511	1.00	21.43	C
ATOM	2962	CD1	LEU	B	139	50.470	13.462	18.197	1.00	21.52	C
ATOM	2963	CD2	LEU	B	139	49.332	14.626	16.303	1.00	21.15	C
ATOM	2964	N	VAL	B	140	51.338	18.433	19.817	1.00	20.57	N
ATOM	2965	CA	VAL	B	140	51.393	19.887	19.974	1.00	20.16	C
ATOM	2966	C	VAL	B	140	51.525	20.560	18.608	1.00	19.92	C
ATOM	2967	O	VAL	B	140	52.339	20.153	17.780	1.00	20.12	O
ATOM	2968	CB	VAL	B	140	52.564	20.336	20.898	1.00	20.16	C
ATOM	2969	CG1	VAL	B	140	52.452	21.824	21.241	1.00	20.11	C
ATOM	2970	CG2	VAL	B	140	52.607	19.504	22.173	1.00	19.85	C
ATOM	2971	N	HIS	B	141	50.714	21.587	18.380	1.00	19.72	N
ATOM	2972	CA	HIS	B	141	50.731	22.321	17.118	1.00	19.24	C
ATOM	2973	C	HIS	B	141	51.921	23.272	17.024	1.00	18.97	C
ATOM	2974	O	HIS	B	141	52.681	23.217	16.055	1.00	18.93	O
ATOM	2975	CB	HIS	B	141	49.421	23.084	16.917	1.00	19.26	C
ATOM	2976	CG	HIS	B	141	49.247	23.616	15.531	1.00	19.28	C
ATOM	2977	ND1	HIS	B	141	48.259	23.169	14.682	1.00	19.51	N
ATOM	2978	CE1	HIS	B	141	48.348	23.812	13.532	1.00	19.59	C
ATOM	2979	NE2	HIS	B	141	49.361	24.656	13.602	1.00	19.42	N
ATOM	2980	CD2	HIS	B	141	49.940	24.553	14.842	1.00	19.11	C
ATOM	2981	N	ARG	B	142	52.056	24.147	18.025	1.00	18.49	N
ATOM	2982	CA	ARG	B	142	53.168	25.101	18.142	1.00	18.18	C
ATOM	2983	C	ARG	B	142	53.036	26.365	17.282	1.00	17.91	C
ATOM	2984	O	ARG	B	142	53.696	27.373	17.553	1.00	17.68	O
ATOM	2985	CB	ARG	B	142	54.504	24.439	17.779	1.00	18.23	C
ATOM	2986	CG	ARG	B	142	55.068	23.552	18.868	1.00	18.68	C
ATOM	2987	CD	ARG	B	142	56.479	23.076	18.603	1.00	19.06	C
ATOM	2988	NE	ARG	B	142	56.808	21.913	19.417	1.00	20.04	N
ATOM	2989	CZ	ARG	B	142	58.033	21.588	19.806	1.00	20.63	C
ATOM	2990	NH1	ARG	B	142	58.223	20.506	20.553	1.00	20.97	N
ATOM	2991	NH2	ARG	B	142	59.072	22.336	19.457	1.00	20.60	N
ATOM	2992	N	ASP	B	143	52.088	26.435	16.410	1.00	17.56	N
ATOM	2993	CA	ASP	B	143	51.905	27.568	15.505	1.00	17.29	C
ATOM	2994	C	ASP	B	143	50.438	27.760	15.080	1.00	17.09	C
ATOM	2995	O	ASP	B	143	50.131	27.927	13.897	1.00	16.75	O

FIG. 4XX

ATOM	2996	CB	ASP	B	143	52.833	27.410	14.294	1.00	17.20	C
ATOM	2997	CG	ASP	B	143	52.791	28.598	13.351	1.00	17.40	C
ATOM	2998	OD1	ASP	B	143	52.632	29.750	13.809	1.00	17.98	O
ATOM	2999	OD2	ASP	B	143	52.910	28.466	12.118	1.00	17.68	O
ATOM	3000	N	LEU	B	144	49.533	27.736	16.055	1.00	16.94	N
ATOM	3001	CA	LEU	B	144	48.114	27.924	15.771	1.00	16.92	C
ATOM	3002	C	LEU	B	144	47.790	29.404	15.589	1.00	16.96	C
ATOM	3003	O	LEU	B	144	48.176	30.245	16.405	1.00	17.13	O
ATOM	3004	CB	LEU	B	144	47.235	27.291	16.859	1.00	16.90	C
ATOM	3005	CG	LEU	B	144	45.706	27.351	16.717	1.00	17.00	C
ATOM	3006	CD1	LEU	B	144	45.208	26.711	15.416	1.00	17.04	C
ATOM	3007	CD2	LEU	B	144	45.037	26.704	17.920	1.00	16.42	C
ATOM	3008	N	ALA	B	145	47.094	29.702	14.496	1.00	16.70	N
ATOM	3009	CA	ALA	B	145	46.692	31.057	14.144	1.00	16.53	C
ATOM	3010	C	ALA	B	145	45.571	30.984	13.116	1.00	16.37	C
ATOM	3011	O	ALA	B	145	45.374	29.943	12.486	1.00	16.65	O
ATOM	3012	CB	ALA	B	145	47.875	31.830	13.586	1.00	16.61	C
ATOM	3013	N	ALA	B	146	44.841	32.084	12.943	1.00	15.84	N
ATOM	3014	CA	ALA	B	146	43.747	32.135	11.975	1.00	15.60	C
ATOM	3015	C	ALA	B	146	44.236	31.890	10.546	1.00	15.40	C
ATOM	3016	O	ALA	B	146	43.462	31.472	9.680	1.00	15.42	O
ATOM	3017	CB	ALA	B	146	43.000	33.459	12.076	1.00	15.51	C
ATOM	3018	N	ARG	B	147	45.525	32.147	10.318	1.00	15.24	N
ATOM	3019	CA	ARG	B	147	46.177	31.907	9.029	1.00	14.90	C
ATOM	3020	C	ARG	B	147	46.432	30.416	8.801	1.00	15.02	C
ATOM	3021	O	ARG	B	147	46.545	29.968	7.661	1.00	15.05	O
ATOM	3022	CB	ARG	B	147	47.492	32.695	8.934	1.00	14.62	C
ATOM	3023	CG	ARG	B	147	48.573	32.241	9.913	1.00	14.24	C
ATOM	3024	CD	ARG	B	147	49.880	33.010	9.835	1.00	13.92	C
ATOM	3025	NE	ARG	B	147	50.873	32.464	10.760	1.00	13.72	N
ATOM	3026	CZ	ARG	B	147	51.056	32.881	12.011	1.00	13.74	C
ATOM	3027	NH1	ARG	B	147	50.318	33.865	12.511	1.00	13.22	N
ATOM	3028	NH2	ARG	B	147	51.981	32.308	12.771	1.00	13.81	N
ATOM	3029	N	ASN	B	148	46.533	29.662	9.895	1.00	15.09	N
ATOM	3030	CA	ASN	B	148	46.710	28.214	9.840	1.00	15.09	C
ATOM	3031	C	ASN	B	148	45.393	27.473	10.078	1.00	15.13	C
ATOM	3032	O	ASN	B	148	45.367	26.387	10.662	1.00	15.07	O
ATOM	3033	CB	ASN	B	148	47.792	27.757	10.829	1.00	15.10	C
ATOM	3034	CG	ASN	B	148	49.191	28.191	10.412	1.00	15.28	C
ATOM	3035	OD1	ASN	B	148	49.506	28.264	9.226	1.00	15.25	O
ATOM	3036	ND2	ASN	B	148	50.037	28.480	11.392	1.00	15.40	N
ATOM	3037	N	VAL	B	149	44.299	28.086	9.630	1.00	15.20	N
ATOM	3038	CA	VAL	B	149	42.990	27.444	9.608	1.00	15.33	C
ATOM	3039	C	VAL	B	149	42.419	27.600	8.202	1.00	15.55	C
ATOM	3040	O	VAL	B	149	42.070	28.708	7.785	1.00	15.74	O
ATOM	3041	CB	VAL	B	149	42.015	28.047	10.651	1.00	15.25	C
ATOM	3042	CG1	VAL	B	149	40.663	27.350	10.589	1.00	14.94	C
ATOM	3043	CG2	VAL	B	149	42.593	27.957	12.060	1.00	15.54	C
ATOM	3044	N	LEU	B	150	42.334	26.489	7.475	1.00	15.45	N
ATOM	3045	CA	LEU	B	150	41.876	26.511	6.089	1.00	15.54	C
ATOM	3046	C	LEU	B	150	40.356	26.391	5.953	1.00	15.55	C
ATOM	3047	O	LEU	B	150	39.698	25.756	6.780	1.00	15.45	O
ATOM	3048	CB	LEU	B	150	42.583	25.429	5.270	1.00	15.58	C
ATOM	3049	CG	LEU	B	150	44.086	25.620	5.036	1.00	15.49	C
ATOM	3050	CD1	LEU	B	150	44.684	24.382	4.380	1.00	15.15	C
ATOM	3051	CD2	LEU	B	150	44.382	26.874	4.210	1.00	15.40	C
ATOM	3052	N	VAL	B	151	39.819	27.005	4.901	1.00	15.39	N
ATOM	3053	CA	VAL	B	151	38.388	26.986	4.613	1.00	15.29	C
ATOM	3054	C	VAL	B	151	38.078	25.907	3.577	1.00	15.56	C
ATOM	3055	O	VAL	B	151	38.458	26.034	2.409	1.00	15.39	O

FIG. 4YY

ATOM	3056	CB	VAL	B	151	37.894	28.371	4.095	1.00	15.34	C
ATOM	3057	CG1	VAL	B	151	36.407	28.339	3.753	1.00	15.08	C
ATOM	3058	CG2	VAL	B	151	38.183	29.474	5.110	1.00	14.95	C
ATOM	3059	N	LYS	B	152	37.406	24.841	4.010	1.00	15.80	N
ATOM	3060	CA	LYS	B	152	36.938	23.803	3.093	1.00	16.19	C
ATOM	3061	C	LYS	B	152	35.669	24.294	2.406	1.00	16.30	C
ATOM	3062	O	LYS	B	152	35.595	24.343	1.175	1.00	16.40	O
ATOM	3063	CB	LYS	B	152	36.690	22.482	3.828	1.00	16.33	C
ATOM	3064	CG	LYS	B	152	36.565	21.273	2.907	1.00	16.80	C
ATOM	3065	CD	LYS	B	152	36.069	20.045	3.657	1.00	17.29	C
ATOM	3066	CE	LYS	B	152	35.664	18.933	2.696	1.00	17.47	C
ATOM	3067	NZ	LYS	B	152	36.842	18.180	2.180	1.00	18.15	N
ATOM	3068	N	THR	B	153	34.673	24.635	3.219	1.00	16.35	N
ATOM	3069	CA	THR	B	153	33.512	25.412	2.794	1.00	16.56	C
ATOM	3070	C	THR	B	153	33.318	26.491	3.862	1.00	16.47	C
ATOM	3071	O	THR	B	153	33.941	26.409	4.922	1.00	16.60	O
ATOM	3072	CB	THR	B	153	32.244	24.528	2.683	1.00	16.59	C
ATOM	3073	OG1	THR	B	153	31.869	24.054	3.981	1.00	17.12	O
ATOM	3074	CG2	THR	B	153	32.510	23.250	1.893	1.00	16.76	C
ATOM	3075	N	PRO	B	154	32.487	27.503	3.606	1.00	16.43	N
ATOM	3076	CA	PRO	B	154	32.172	28.503	4.637	1.00	16.36	C
ATOM	3077	C	PRO	B	154	31.725	27.882	5.967	1.00	16.32	C
ATOM	3078	O	PRO	B	154	31.873	28.517	7.013	1.00	16.22	O
ATOM	3079	CB	PRO	B	154	31.027	29.300	4.008	1.00	16.41	C
ATOM	3080	CG	PRO	B	154	31.269	29.196	2.547	1.00	16.53	C
ATOM	3081	CD	PRO	B	154	31.818	27.810	2.326	1.00	16.53	C
ATOM	3082	N	GLN	B	155	31.210	26.653	5.918	1.00	16.31	N
ATOM	3083	CA	GLN	B	155	30.746	25.946	7.113	1.00	16.12	C
ATOM	3084	C	GLN	B	155	31.713	24.868	7.614	1.00	15.78	C
ATOM	3085	O	GLN	B	155	31.458	24.234	8.638	1.00	15.82	O
ATOM	3086	CB	GLN	B	155	29.348	25.345	6.891	1.00	16.33	C
ATOM	3087	CG	GLN	B	155	28.877	25.304	5.442	1.00	16.87	C
ATOM	3088	CD	GLN	B	155	27.835	26.364	5.132	1.00	17.45	C
ATOM	3089	OE1	GLN	B	155	27.972	27.115	4.159	1.00	17.28	O
ATOM	3090	NE2	GLN	B	155	26.791	26.430	5.955	1.00	17.68	N
ATOM	3091	N	HIS	B	156	32.819	24.669	6.902	1.00	15.45	N
ATOM	3092	CA	HIS	B	156	33.798	23.642	7.261	1.00	15.21	C
ATOM	3093	C	HIS	B	156	35.227	24.191	7.244	1.00	15.03	C
ATOM	3094	O	HIS	B	156	35.750	24.551	6.191	1.00	14.92	O
ATOM	3095	CB	HIS	B	156	33.668	22.435	6.319	1.00	15.13	C
ATOM	3096	CG	HIS	B	156	34.241	21.160	6.865	1.00	14.83	C
ATOM	3097	ND1	HIS	B	156	33.918	19.924	6.348	1.00	14.44	N
ATOM	3098	CE1	HIS	B	156	34.569	18.986	7.011	1.00	13.87	C
ATOM	3099	NE2	HIS	B	156	35.303	19.569	7.942	1.00	13.92	N
ATOM	3100	CD2	HIS	B	156	35.119	20.928	7.870	1.00	14.33	C
ATOM	3101	N	VAL	B	157	35.851	24.254	8.418	1.00	14.99	N
ATOM	3102	CA	VAL	B	157	37.221	24.757	8.540	1.00	14.97	C
ATOM	3103	C	VAL	B	157	38.180	23.715	9.130	1.00	15.29	C
ATOM	3104	O	VAL	B	157	37.805	22.945	10.018	1.00	15.40	O
ATOM	3105	CB	VAL	B	157	37.298	26.090	9.336	1.00	14.72	C
ATOM	3106	CG1	VAL	B	157	36.646	27.225	8.556	1.00	14.48	C
ATOM	3107	CG2	VAL	B	157	36.676	25.954	10.720	1.00	14.77	C
ATOM	3108	N	LYS	B	158	39.413	23.696	8.623	1.00	15.44	N
ATOM	3109	CA	LYS	B	158	40.409	22.708	9.036	1.00	15.73	C
ATOM	3110	C	LYS	B	158	41.712	23.358	9.501	1.00	15.85	C
ATOM	3111	O	LYS	B	158	42.260	24.231	8.823	1.00	15.82	O
ATOM	3112	CB	LYS	B	158	40.716	21.734	7.893	1.00	15.69	C
ATOM	3113	CG	LYS	B	158	39.558	20.858	7.450	1.00	16.28	C
ATOM	3114	CD	LYS	B	158	39.857	20.192	6.117	1.00	16.25	C
ATOM	3115	CE	LYS	B	158	39.785	18.673	6.225	1.00	16.82	C

FIG. 4ZZ

ATOM	3116	NZ	LYS	B	158	41.043	18.074	6.764	1.00	16.59	N
ATOM	3117	N	ILE	B	159	42.201	22.922	10.658	1.00	15.85	N
ATOM	3118	CA	ILE	B	159	43.514	23.332	11.143	1.00	15.88	C
ATOM	3119	C	ILE	B	159	44.590	22.696	10.264	1.00	16.08	C
ATOM	3120	O	ILE	B	159	44.486	21.524	9.889	1.00	15.98	O
ATOM	3121	CB	ILE	B	159	43.705	22.932	12.626	1.00	15.81	C
ATOM	3122	CG1	ILE	B	159	42.600	23.536	13.497	1.00	15.59	C
ATOM	3123	CD1	ILE	B	159	42.316	22.751	14.754	1.00	15.22	C
ATOM	3124	CG2	ILE	B	159	45.077	23.369	13.135	1.00	15.73	C
ATOM	3125	N	THR	B	160	45.611	23.483	9.932	1.00	16.19	N
ATOM	3126	CA	THR	B	160	46.715	23.028	9.089	1.00	16.39	C
ATOM	3127	C	THR	B	160	48.058	23.378	9.727	1.00	16.67	C
ATOM	3128	O	THR	B	160	48.105	24.116	10.711	1.00	16.53	O
ATOM	3129	CB	THR	B	160	46.596	23.631	7.661	1.00	16.35	C
ATOM	3130	OG1	THR	B	160	47.731	23.248	6.870	1.00	16.23	O
ATOM	3131	CG2	THR	B	160	46.683	25.156	7.695	1.00	15.94	C
ATOM	3132	N	ASP	B	161	49.137	22.839	9.159	1.00	17.21	N
ATOM	3133	CA	ASP	B	161	50.513	23.080	9.621	1.00	17.93	C
ATOM	3134	C	ASP	B	161	50.819	22.527	11.015	1.00	18.47	C
ATOM	3135	O	ASP	B	161	51.803	22.925	11.647	1.00	18.68	O
ATOM	3136	CB	ASP	B	161	50.871	24.572	9.555	1.00	17.73	C
ATOM	3137	CG	ASP	B	161	51.033	25.074	8.138	1.00	17.77	C
ATOM	3138	OD1	ASP	B	161	51.278	24.259	7.227	1.00	17.71	O
ATOM	3139	OD2	ASP	B	161	50.933	26.279	7.837	1.00	18.29	O
ATOM	3140	N	PHE	B	162	49.977	21.613	11.487	1.00	19.04	N
ATOM	3141	CA	PHE	B	162	50.176	20.972	12.783	1.00	19.68	C
ATOM	3142	C	PHE	B	162	51.543	20.292	12.833	1.00	20.09	C
ATOM	3143	O	PHE	B	162	51.934	19.592	11.891	1.00	20.13	O
ATOM	3144	CB	PHE	B	162	49.052	19.965	13.065	1.00	19.79	C
ATOM	3145	CG	PHE	B	162	49.025	18.803	12.115	1.00	19.88	C
ATOM	3146	CD1	PHE	B	162	49.475	17.556	12.518	1.00	20.15	C
ATOM	3147	CE1	PHE	B	162	49.459	16.479	11.636	1.00	20.74	C
ATOM	3148	CZ	PHE	B	162	48.990	16.645	10.336	1.00	20.08	C
ATOM	3149	CE2	PHE	B	162	48.548	17.887	9.923	1.00	20.37	C
ATOM	3150	CD2	PHE	B	162	48.559	18.958	10.811	1.00	20.47	C
ATOM	3151	N	GLY	B	163	52.271	20.527	13.925	1.00	20.48	N
ATOM	3152	CA	GLY	B	163	53.586	19.945	14.129	1.00	20.74	C
ATOM	3153	C	GLY	B	163	54.492	20.057	12.916	1.00	21.18	C
ATOM	3154	O	GLY	B	163	54.865	19.045	12.322	1.00	21.69	O
ATOM	3155	N	LEU	B	164	54.815	21.291	12.536	1.00	21.26	N
ATOM	3156	CA	LEU	B	164	55.793	21.569	11.487	1.00	21.32	C
ATOM	3157	C	LEU	B	164	57.021	22.244	12.091	1.00	21.56	C
ATOM	3158	O	LEU	B	164	58.064	22.361	11.442	1.00	21.57	O
ATOM	3159	CB	LEU	B	164	55.200	22.490	10.417	1.00	21.23	C
ATOM	3160	CG	LEU	B	164	54.224	21.977	9.354	1.00	21.46	C
ATOM	3161	CD1	LEU	B	164	54.060	23.039	8.293	1.00	21.29	C
ATOM	3162	CD2	LEU	B	164	54.690	20.689	8.712	1.00	21.59	C
ATOM	3163	N	ALA	B	165	56.886	22.691	13.338	1.00	21.73	N
ATOM	3164	CA	ALA	B	165	57.956	23.396	14.035	1.00	21.74	C
ATOM	3165	C	ALA	B	165	59.047	22.447	14.528	1.00	21.84	C
ATOM	3166	O	ALA	B	165	60.149	22.886	14.868	1.00	22.15	O
ATOM	3167	CB	ALA	B	165	57.390	24.216	15.183	1.00	21.73	C
ATOM	3168	N	LYS	B	166	58.732	21.153	14.567	1.00	21.83	N
ATOM	3169	CA	LYS	B	166	59.709	20.115	14.891	1.00	21.68	C
ATOM	3170	C	LYS	B	166	60.661	19.920	13.715	1.00	21.83	C
ATOM	3171	O	LYS	B	166	60.234	19.879	12.554	1.00	22.08	O
ATOM	3172	CB	LYS	B	166	59.011	18.789	15.214	1.00	21.77	C
ATOM	3173	CG	LYS	B	166	58.011	18.840	16.373	1.00	21.98	C
ATOM	3174	CD	LYS	B	166	57.480	17.442	16.695	1.00	22.41	C
ATOM	3175	CE	LYS	B	166	56.098	17.498	17.346	1.00	22.83	C

FIG. 4AAA

ATOM	3176	NZ	LYS	B	166	55.809	16.260	18.145	1.00	22.79	N
ATOM	3177	N	PRO	B	183	56.715	33.625	15.625	1.00	22.42	N
ATOM	3178	CA	PRO	B	183	55.580	34.544	15.765	1.00	22.25	C
ATOM	3179	C	PRO	B	183	55.212	34.748	17.232	1.00	22.18	C
ATOM	3180	O	PRO	B	183	54.353	34.045	17.774	1.00	22.27	O
ATOM	3181	CB	PRO	B	183	54.457	33.829	15.009	1.00	22.31	C
ATOM	3182	CG	PRO	B	183	55.172	32.930	14.053	1.00	22.53	C
ATOM	3183	CD	PRO	B	183	56.379	32.450	14.804	1.00	22.50	C
ATOM	3184	N	ILE	B	184	55.881	35.719	17.851	1.00	21.96	N
ATOM	3185	CA	ILE	B	184	55.735	36.052	19.267	1.00	21.71	C
ATOM	3186	C	ILE	B	184	54.295	36.406	19.654	1.00	21.65	C
ATOM	3187	O	ILE	B	184	53.838	36.060	20.749	1.00	21.87	O
ATOM	3188	CB	ILE	B	184	56.713	37.217	19.626	1.00	21.83	C
ATOM	3189	CG1	ILE	B	184	58.176	36.777	19.453	1.00	21.78	C
ATOM	3190	CD1	ILE	B	184	58.720	35.862	20.554	1.00	22.06	C
ATOM	3191	CG2	ILE	B	184	56.444	37.788	21.028	1.00	21.83	C
ATOM	3192	N	LYS	B	185	53.585	37.074	18.747	1.00	21.28	N
ATOM	3193	CA	LYS	B	185	52.247	37.607	19.024	1.00	20.93	C
ATOM	3194	C	LYS	B	185	51.169	36.536	19.241	1.00	20.79	C
ATOM	3195	O	LYS	B	185	50.058	36.849	19.677	1.00	20.47	O
ATOM	3196	CB	LYS	B	185	51.823	38.590	17.926	1.00	20.75	C
ATOM	3197	CG	LYS	B	185	52.863	39.659	17.628	1.00	20.34	C
ATOM	3198	CD	LYS	B	185	52.235	40.912	17.060	1.00	19.80	C
ATOM	3199	CE	LYS	B	185	52.892	42.156	17.628	1.00	19.51	C
ATOM	3200	NZ	LYS	B	185	53.140	43.181	16.583	1.00	19.03	N
ATOM	3201	N	TRP	B	186	51.510	35.282	18.950	1.00	20.74	N
ATOM	3202	CA	TRP	B	186	50.610	34.151	19.176	1.00	20.82	C
ATOM	3203	C	TRP	B	186	51.092	33.236	20.299	1.00	21.08	C
ATOM	3204	O	TRP	B	186	50.361	32.350	20.742	1.00	21.18	O
ATOM	3205	CB	TRP	B	186	50.440	33.341	17.890	1.00	20.63	C
ATOM	3206	CG	TRP	B	186	49.500	33.972	16.921	1.00	19.96	C
ATOM	3207	CD1	TRP	B	186	48.182	33.667	16.742	1.00	19.61	C
ATOM	3208	NE1	TRP	B	186	47.640	34.464	15.762	1.00	19.54	N
ATOM	3209	CE2	TRP	B	186	48.612	35.306	15.285	1.00	19.48	C
ATOM	3210	CD2	TRP	B	186	49.799	35.023	15.996	1.00	19.21	C
ATOM	3211	CE3	TRP	B	186	50.954	35.757	15.690	1.00	18.81	C
ATOM	3212	CZ3	TRP	B	186	50.888	36.737	14.700	1.00	18.50	C
ATOM	3213	CH2	TRP	B	186	49.691	36.993	14.014	1.00	18.50	C
ATOM	3214	CZ2	TRP	B	186	48.545	36.294	14.291	1.00	18.96	C
ATOM	3215	N	MET	B	187	52.319	33.467	20.760	1.00	21.43	N
ATOM	3216	CA	MET	B	187	52.975	32.579	21.715	1.00	21.61	C
ATOM	3217	C	MET	B	187	52.628	32.876	23.168	1.00	21.85	C
ATOM	3218	O	MET	B	187	52.400	34.030	23.545	1.00	21.99	O
ATOM	3219	CB	MET	B	187	54.492	32.637	21.536	1.00	21.62	C
ATOM	3220	CG	MET	B	187	55.005	31.890	20.320	1.00	21.92	C
ATOM	3221	SD	MET	B	187	56.599	32.519	19.779	1.00	23.04	S
ATOM	3222	CE	MET	B	187	57.688	31.747	20.961	1.00	22.66	C
ATOM	3223	N	ALA	B	188	52.596	31.818	23.976	1.00	21.96	N
ATOM	3224	CA	ALA	B	188	52.451	31.941	25.421	1.00	21.93	C
ATOM	3225	C	ALA	B	188	53.754	32.467	26.022	1.00	21.97	C
ATOM	3226	O	ALA	B	188	54.826	32.291	25.435	1.00	21.90	O
ATOM	3227	CB	ALA	B	188	52.082	30.600	26.026	1.00	21.97	C
ATOM	3228	N	LEU	B	189	53.657	33.106	27.188	1.00	21.93	N
ATOM	3229	CA	LEU	B	189	54.824	33.690	27.856	1.00	21.88	C
ATOM	3230	C	LEU	B	189	55.943	32.675	28.087	1.00	21.74	C
ATOM	3231	O	LEU	B	189	57.116	32.990	27.880	1.00	22.00	O
ATOM	3232	CB	LEU	B	189	54.426	34.362	29.176	1.00	22.00	C
ATOM	3233	CG	LEU	B	189	55.451	35.311	29.813	1.00	22.38	C
ATOM	3234	CD1	LEU	B	189	55.537	36.650	29.084	1.00	22.36	C
ATOM	3235	CD2	LEU	B	189	55.142	35.528	31.288	1.00	22.97	C

FIG. 4BBB

ATOM	3236	N	GLU	B	190	55.575	31.463	28.501	1.00	21.45	N
ATOM	3237	CA	GLU	B	190	56.541	30.386	28.726	1.00	21.15	C
ATOM	3238	C	GLU	B	190	57.252	29.959	27.439	1.00	21.17	C
ATOM	3239	O	GLU	B	190	58.408	29.532	27.475	1.00	21.19	O
ATOM	3240	CB	GLU	B	190	55.881	29.183	29.419	1.00	21.12	C
ATOM	3241	CG	GLU	B	190	54.757	28.513	28.640	1.00	20.85	C
ATOM	3242	CD	GLU	B	190	53.377	29.014	29.030	1.00	20.68	C
ATOM	3243	OE1	GLU	B	190	52.434	28.197	29.037	1.00	20.64	O
ATOM	3244	OE2	GLU	B	190	53.225	30.221	29.320	1.00	20.22	O
ATOM	3245	N	SER	B	191	56.559	30.086	26.309	1.00	21.18	N
ATOM	3246	CA	SER	B	191	57.142	29.788	25.003	1.00	21.15	C
ATOM	3247	C	SER	B	191	58.086	30.902	24.567	1.00	21.19	C
ATOM	3248	O	SER	B	191	59.075	30.653	23.880	1.00	21.13	O
ATOM	3249	CB	SER	B	191	56.048	29.582	23.953	1.00	21.15	C
ATOM	3250	OG	SER	B	191	55.160	28.546	24.330	1.00	20.81	O
ATOM	3251	N	ILE	B	192	57.774	32.132	24.969	1.00	21.42	N
ATOM	3252	CA	ILE	B	192	58.617	33.279	24.643	1.00	21.55	C
ATOM	3253	C	ILE	B	192	59.885	33.273	25.501	1.00	21.47	C
ATOM	3254	O	ILE	B	192	60.990	33.442	24.982	1.00	21.39	O
ATOM	3255	CB	ILE	B	192	57.832	34.613	24.791	1.00	21.56	C
ATOM	3256	CG1	ILE	B	192	56.640	34.643	23.833	1.00	21.77	C
ATOM	3257	CD1	ILE	B	192	55.467	35.476	24.324	1.00	22.48	C
ATOM	3258	CG2	ILE	B	192	58.734	35.819	24.517	1.00	21.63	C
ATOM	3259	N	LEU	B	193	59.719	33.051	26.803	1.00	21.39	N
ATOM	3260	CA	LEU	B	193	60.829	33.146	27.750	1.00	21.60	C
ATOM	3261	C	LEU	B	193	61.710	31.902	27.789	1.00	21.76	C
ATOM	3262	O	LEU	B	193	62.937	32.012	27.864	1.00	21.97	O
ATOM	3263	CB	LEU	B	193	60.321	33.476	29.161	1.00	21.51	C
ATOM	3264	CG	LEU	B	193	59.616	34.819	29.392	1.00	21.65	C
ATOM	3265	CD1	LEU	B	193	59.084	34.908	30.815	1.00	21.26	C
ATOM	3266	CD2	LEU	B	193	60.528	36.005	29.083	1.00	21.67	C
ATOM	3267	N	HIS	B	194	61.087	30.726	27.736	1.00	21.75	N
ATOM	3268	CA	HIS	B	194	61.800	29.469	27.956	1.00	21.77	C
ATOM	3269	C	HIS	B	194	61.667	28.455	26.815	1.00	21.51	C
ATOM	3270	O	HIS	B	194	62.162	27.330	26.922	1.00	21.28	O
ATOM	3271	CB	HIS	B	194	61.348	28.839	29.278	1.00	22.22	C
ATOM	3272	CG	HIS	B	194	61.278	29.806	30.420	1.00	22.90	C
ATOM	3273	ND1	HIS	B	194	62.286	30.703	30.701	1.00	23.67	N
ATOM	3274	CE1	HIS	B	194	61.950	31.426	31.754	1.00	23.97	C
ATOM	3275	NE2	HIS	B	194	60.760	31.028	32.169	1.00	24.36	N
ATOM	3276	CD2	HIS	B	194	60.317	30.017	31.350	1.00	23.54	C
ATOM	3277	N	ARG	B	195	61.007	28.864	25.730	1.00	21.22	N
ATOM	3278	CA	ARG	B	195	60.785	28.018	24.547	1.00	20.95	C
ATOM	3279	C	ARG	B	195	60.075	26.692	24.863	1.00	20.83	C
ATOM	3280	O	ARG	B	195	60.388	25.652	24.270	1.00	20.76	O
ATOM	3281	CB	ARG	B	195	62.097	27.769	23.785	1.00	20.95	C
ATOM	3282	CG	ARG	B	195	62.869	29.026	23.414	1.00	20.97	C
ATOM	3283	CD	ARG	B	195	64.382	28.853	23.432	1.00	20.99	C
ATOM	3284	N	ILE	B	196	59.121	26.739	25.793	1.00	20.45	N
ATOM	3285	CA	ILE	B	196	58.351	25.559	26.183	1.00	20.11	C
ATOM	3286	C	ILE	B	196	56.993	25.551	25.484	1.00	19.80	C
ATOM	3287	O	ILE	B	196	56.243	26.527	25.540	1.00	19.93	O
ATOM	3288	CB	ILE	B	196	58.212	25.464	27.734	1.00	20.35	C
ATOM	3289	CG1	ILE	B	196	59.547	25.040	28.363	1.00	20.33	C
ATOM	3290	CD1	ILE	B	196	59.748	25.504	29.792	1.00	20.50	C
ATOM	3291	CG2	ILE	B	196	57.118	24.463	28.136	1.00	20.41	C
ATOM	3292	N	TYR	B	197	56.695	24.442	24.814	1.00	19.45	N
ATOM	3293	CA	TYR	B	197	55.452	24.287	24.066	1.00	18.70	C
ATOM	3294	C	TYR	B	197	54.669	23.094	24.592	1.00	18.24	C
ATOM	3295	O	TYR	B	197	55.197	21.986	24.680	1.00	18.23	O

FIG. 4CCC

ATOM	3296	CB	TYR	B	197	55.747	24.098	22.574	1.00	18.72	C
ATOM	3297	CG	TYR	B	197	56.388	25.291	21.904	1.00	18.55	C
ATOM	3298	CD1	TYR	B	197	55.616	26.225	21.216	1.00	18.24	C
ATOM	3299	CE1	TYR	B	197	56.198	27.319	20.591	1.00	18.10	C
ATOM	3300	CZ	TYR	B	197	57.570	27.490	20.648	1.00	18.50	C
ATOM	3301	OH	TYR	B	197	58.148	28.575	20.030	1.00	19.03	O
ATOM	3302	CE2	TYR	B	197	58.363	26.577	21.320	1.00	18.66	C
ATOM	3303	CD2	TYR	B	197	57.770	25.480	21.942	1.00	18.69	C
ATOM	3304	N	THR	B	198	53.410	23.331	24.946	1.00	17.98	N
ATOM	3305	CA	THR	B	198	52.532	22.294	25.490	1.00	17.80	C
ATOM	3306	C	THR	B	198	51.153	22.399	24.855	1.00	17.59	C
ATOM	3307	O	THR	B	198	50.941	23.221	23.964	1.00	17.78	O
ATOM	3308	CB	THR	B	198	52.399	22.437	27.023	1.00	17.82	C
ATOM	3309	OG1	THR	B	198	52.101	23.799	27.350	1.00	17.96	O
ATOM	3310	CG2	THR	B	198	53.731	22.166	27.732	1.00	17.76	C
ATOM	3311	N	HIS	B	199	50.219	21.567	25.316	1.00	17.36	N
ATOM	3312	CA	HIS	B	199	48.819	21.664	24.906	1.00	17.22	C
ATOM	3313	C	HIS	B	199	48.213	22.963	25.426	1.00	17.24	C
ATOM	3314	O	HIS	B	199	47.380	23.575	24.758	1.00	16.92	O
ATOM	3315	CB	HIS	B	199	48.005	20.479	25.428	1.00	17.04	C
ATOM	3316	CG	HIS	B	199	48.575	19.143	25.067	1.00	16.91	C
ATOM	3317	ND1	HIS	B	199	48.692	18.710	23.764	1.00	16.53	N
ATOM	3318	CE1	HIS	B	199	49.220	17.499	23.751	1.00	16.36	C
ATOM	3319	NE2	HIS	B	199	49.445	17.130	25.000	1.00	16.26	N
ATOM	3320	CD2	HIS	B	199	49.050	18.140	25.842	1.00	16.15	C
ATOM	3321	N	GLN	B	200	48.646	23.366	26.622	1.00	17.27	N
ATOM	3322	CA	GLN	B	200	48.206	24.609	27.256	1.00	17.28	C
ATOM	3323	C	GLN	B	200	48.854	25.854	26.646	1.00	17.15	C
ATOM	3324	O	GLN	B	200	48.337	26.961	26.793	1.00	17.20	O
ATOM	3325	CB	GLN	B	200	48.452	24.558	28.766	1.00	17.38	C
ATOM	3326	CG	GLN	B	200	47.551	23.572	29.509	1.00	17.51	C
ATOM	3327	CD	GLN	B	200	46.077	23.760	29.184	1.00	17.43	C
ATOM	3328	OE1	GLN	B	200	45.513	23.019	28.373	1.00	16.85	O
ATOM	3329	NE2	GLN	B	200	45.453	24.750	29.814	1.00	17.27	N
ATOM	3330	N	SER	B	201	49.984	25.666	25.970	1.00	17.06	N
ATOM	3331	CA	SER	B	201	50.580	26.722	25.156	1.00	17.03	C
ATOM	3332	C	SER	B	201	49.790	26.896	23.859	1.00	16.80	C
ATOM	3333	O	SER	B	201	49.717	27.998	23.313	1.00	16.57	O
ATOM	3334	CB	SER	B	201	52.042	26.408	24.842	1.00	17.04	C
ATOM	3335	OG	SER	B	201	52.670	27.514	24.215	1.00	17.75	O
ATOM	3336	N	ASP	B	202	49.207	25.799	23.376	1.00	16.59	N
ATOM	3337	CA	ASP	B	202	48.321	25.820	22.215	1.00	16.53	C
ATOM	3338	C	ASP	B	202	46.986	26.495	22.535	1.00	16.38	C
ATOM	3339	O	ASP	B	202	46.330	27.026	21.636	1.00	16.51	O
ATOM	3340	CB	ASP	B	202	48.066	24.399	21.698	1.00	16.49	C
ATOM	3341	CG	ASP	B	202	49.124	23.924	20.714	1.00	16.64	C
ATOM	3342	OD1	ASP	B	202	49.210	22.693	20.496	1.00	16.58	O
ATOM	3343	OD2	ASP	B	202	49.906	24.693	20.108	1.00	16.43	O
ATOM	3344	N	VAL	B	203	46.585	26.461	23.807	1.00	16.20	N
ATOM	3345	CA	VAL	B	203	45.360	27.131	24.255	1.00	16.45	C
ATOM	3346	C	VAL	B	203	45.518	28.652	24.153	1.00	16.45	C
ATOM	3347	O	VAL	B	203	44.583	29.352	23.766	1.00	16.60	O
ATOM	3348	CB	VAL	B	203	44.933	26.712	25.699	1.00	16.39	C
ATOM	3349	CG1	VAL	B	203	43.676	27.451	26.136	1.00	16.30	C
ATOM	3350	CG2	VAL	B	203	44.685	25.209	25.786	1.00	16.35	C
ATOM	3351	N	TRP	B	204	46.708	29.147	24.491	1.00	16.36	N
ATOM	3352	CA	TRP	B	204	47.040	30.561	24.347	1.00	16.46	C
ATOM	3353	C	TRP	B	204	46.851	31.022	22.903	1.00	16.47	C
ATOM	3354	O	TRP	B	204	46.183	32.030	22.652	1.00	16.51	O
ATOM	3355	CB	TRP	B	204	48.479	30.821	24.799	1.00	16.57	C

FIG. 4DDD



ATOM	3356	CG	TRP	B	204	48.858	32.281	24.865	1.00	16.80	C
ATOM	3357	CD1	TRP	B	204	48.956	33.158	23.817	1.00	16.53	C
ATOM	3358	NE1	TRP	B	204	49.332	34.400	24.270	1.00	16.41	N
ATOM	3359	CE2	TRP	B	204	49.492	34.350	25.629	1.00	16.34	C
ATOM	3360	CD2	TRP	B	204	49.200	33.028	26.040	1.00	16.56	C
ATOM	3361	CE3	TRP	B	204	49.294	32.714	27.402	1.00	16.37	C
ATOM	3362	CZ3	TRP	B	204	49.669	33.717	28.299	1.00	16.86	C
ATOM	3363	CH2	TRP	B	204	49.948	35.021	27.855	1.00	16.31	C
ATOM	3364	CZ2	TRP	B	204	49.865	35.355	26.528	1.00	16.24	C
ATOM	3365	N	SER	B	205	47.438	30.275	21.965	1.00	16.22	N
ATOM	3366	CA	SER	B	205	47.342	30.578	20.534	1.00	15.80	C
ATOM	3367	C	SER	B	205	45.903	30.507	20.035	1.00	15.55	C
ATOM	3368	O	SER	B	205	45.511	31.285	19.165	1.00	15.61	O
ATOM	3369	CB	SER	B	205	48.224	29.635	19.714	1.00	15.70	C
ATOM	3370	OG	SER	B	205	49.559	29.641	20.181	1.00	15.55	O
ATOM	3371	N	TYR	B	206	45.129	29.571	20.588	1.00	15.07	N
ATOM	3372	CA	TYR	B	206	43.699	29.467	20.309	1.00	14.61	C
ATOM	3373	C	TYR	B	206	42.976	30.733	20.767	1.00	14.76	C
ATOM	3374	O	TYR	B	206	42.007	31.159	20.143	1.00	15.07	O
ATOM	3375	CB	TYR	B	206	43.105	28.223	20.986	1.00	14.35	C
ATOM	3376	CG	TYR	B	206	41.600	28.072	20.835	1.00	13.49	C
ATOM	3377	CD1	TYR	B	206	40.733	28.424	21.871	1.00	12.79	C
ATOM	3378	CE1	TYR	B	206	39.348	28.288	21.734	1.00	12.20	C
ATOM	3379	CZ	TYR	B	206	38.825	27.794	20.550	1.00	11.90	C
ATOM	3380	OH	TYR	B	206	37.467	27.651	20.399	1.00	10.89	O
ATOM	3381	CE2	TYR	B	206	39.665	27.435	19.512	1.00	12.25	C
ATOM	3382	CD2	TYR	B	206	41.045	27.574	19.659	1.00	12.84	C
ATOM	3383	N	GLY	B	207	43.456	31.330	21.856	1.00	14.75	N
ATOM	3384	CA	GLY	B	207	42.922	32.587	22.347	1.00	15.01	C
ATOM	3385	C	GLY	B	207	43.105	33.715	21.347	1.00	15.01	C
ATOM	3386	O	GLY	B	207	42.144	34.405	20.999	1.00	15.06	O
ATOM	3387	N	VAL	B	208	44.339	33.891	20.882	1.00	15.03	N
ATOM	3388	CA	VAL	B	208	44.664	34.892	19.864	1.00	15.14	C
ATOM	3389	C	VAL	B	208	43.905	34.632	18.559	1.00	15.22	C
ATOM	3390	O	VAL	B	208	43.474	35.574	17.893	1.00	15.27	O
ATOM	3391	CB	VAL	B	208	46.189	34.962	19.593	1.00	15.17	C
ATOM	3392	CG1	VAL	B	208	46.527	36.111	18.649	1.00	15.05	C
ATOM	3393	CG2	VAL	B	208	46.965	35.102	20.903	1.00	15.18	C
ATOM	3394	N	THR	B	209	43.734	33.353	18.220	1.00	15.32	N
ATOM	3395	CA	THR	B	209	43.005	32.934	17.020	1.00	15.51	C
ATOM	3396	C	THR	B	209	41.534	33.362	17.054	1.00	15.77	C
ATOM	3397	O	THR	B	209	41.041	33.969	16.100	1.00	15.74	O
ATOM	3398	CB	THR	B	209	43.125	31.405	16.820	1.00	15.39	C
ATOM	3399	OG1	THR	B	209	44.509	31.045	16.726	1.00	15.35	O
ATOM	3400	CG2	THR	B	209	42.566	30.986	15.468	1.00	15.10	C
ATOM	3401	N	VAL	B	210	40.851	33.039	18.152	1.00	15.93	N
ATOM	3402	CA	VAL	B	210	39.464	33.445	18.378	1.00	16.36	C
ATOM	3403	C	VAL	B	210	39.339	34.974	18.345	1.00	16.58	C
ATOM	3404	O	VAL	B	210	38.386	35.517	17.781	1.00	16.56	O
ATOM	3405	CB	VAL	B	210	38.931	32.880	19.724	1.00	16.51	C
ATOM	3406	CG1	VAL	B	210	37.569	33.472	20.088	1.00	16.71	C
ATOM	3407	CG2	VAL	B	210	38.849	31.360	19.673	1.00	16.77	C
ATOM	3408	N	TRP	B	211	40.317	35.655	18.938	1.00	16.78	N
ATOM	3409	CA	TRP	B	211	40.376	37.113	18.938	1.00	17.07	C
ATOM	3410	C	TRP	B	211	40.483	37.664	17.514	1.00	17.46	C
ATOM	3411	O	TRP	B	211	39.771	38.603	17.158	1.00	17.73	O
ATOM	3412	CB	TRP	B	211	41.544	37.597	19.806	1.00	16.78	C
ATOM	3413	CG	TRP	B	211	41.634	39.088	19.961	1.00	16.05	C
ATOM	3414	CD1	TRP	B	211	41.085	39.843	20.956	1.00	15.56	C
ATOM	3415	NE1	TRP	B	211	41.391	41.170	20.769	1.00	15.38	N

FIG. 4EEE

ATOM	3416	CE2	TRP	B	211	42.154	41.297	19.638	1.00	15.41	C
ATOM	3417	CD2	TRP	B	211	42.329	40.002	19.103	1.00	15.73	C
ATOM	3418	CE3	TRP	B	211	43.084	39.859	17.928	1.00	15.47	C
ATOM	3419	CZ3	TRP	B	211	43.628	40.994	17.337	1.00	15.46	C
ATOM	3420	CH2	TRP	B	211	43.435	42.268	17.898	1.00	15.36	C
ATOM	3421	CZ2	TRP	B	211	42.701	42.440	19.043	1.00	15.19	C
ATOM	3422	N	GLU	B	212	41.365	37.070	16.711	1.00	17.88	N
ATOM	3423	CA	GLU	B	212	41.521	37.431	15.301	1.00	18.08	C
ATOM	3424	C	GLU	B	212	40.186	37.363	14.560	1.00	18.48	C
ATOM	3425	O	GLU	B	212	39.845	38.269	13.801	1.00	18.56	O
ATOM	3426	CB	GLU	B	212	42.512	36.488	14.617	1.00	18.02	C
ATOM	3427	CG	GLU	B	212	43.980	36.819	14.803	1.00	17.42	C
ATOM	3428	CD	GLU	B	212	44.875	35.756	14.194	1.00	17.22	C
ATOM	3429	OE1	GLU	B	212	45.429	36.000	13.103	1.00	17.17	O
ATOM	3430	OE2	GLU	B	212	45.016	34.670	14.796	1.00	17.09	O
ATOM	3431	N	LEU	B	213	39.441	36.284	14.792	1.00	19.08	N
ATOM	3432	CA	LEU	B	213	38.147	36.063	14.146	1.00	19.63	C
ATOM	3433	C	LEU	B	213	37.109	37.105	14.564	1.00	19.93	C
ATOM	3434	O	LEU	B	213	36.415	37.670	13.718	1.00	19.77	O
ATOM	3435	CB	LEU	B	213	37.629	34.646	14.438	1.00	19.47	C
ATOM	3436	CG	LEU	B	213	38.499	33.442	14.049	1.00	19.47	C
ATOM	3437	CD1	LEU	B	213	37.819	32.133	14.436	1.00	19.58	C
ATOM	3438	CD2	LEU	B	213	38.855	33.443	12.567	1.00	19.23	C
ATOM	3439	N	MET	B	214	37.027	37.359	15.869	1.00	20.48	N
ATOM	3440	CA	MET	B	214	36.051	38.290	16.438	1.00	20.92	C
ATOM	3441	C	MET	B	214	36.315	39.747	16.046	1.00	21.06	C
ATOM	3442	O	MET	B	214	35.396	40.566	16.015	1.00	21.08	O
ATOM	3443	CB	MET	B	214	36.008	38.151	17.963	1.00	21.01	C
ATOM	3444	CG	MET	B	214	35.669	36.750	18.460	1.00	21.37	C
ATOM	3445	SD	MET	B	214	33.983	36.252	18.092	1.00	22.53	S
ATOM	3446	CE	MET	B	214	34.060	34.474	18.422	1.00	22.44	C
ATOM	3447	N	THR	B	215	37.574	40.059	15.753	1.00	21.29	N
ATOM	3448	CA	THR	B	215	37.959	41.395	15.304	1.00	21.55	C
ATOM	3449	C	THR	B	215	38.001	41.468	13.775	1.00	21.77	C
ATOM	3450	O	THR	B	215	38.497	42.443	13.202	1.00	21.86	O
ATOM	3451	CB	THR	B	215	39.321	41.794	15.901	1.00	21.49	C
ATOM	3452	OG1	THR	B	215	40.259	40.729	15.709	1.00	21.62	O
ATOM	3453	CG2	THR	B	215	39.233	41.933	17.415	1.00	21.04	C
ATOM	3454	N	PHE	B	216	37.473	40.423	13.135	1.00	21.97	N
ATOM	3455	CA	PHE	B	216	37.373	40.306	11.674	1.00	22.06	C
ATOM	3456	C	PHE	B	216	38.714	40.402	10.930	1.00	22.12	C
ATOM	3457	O	PHE	B	216	38.783	40.927	9.815	1.00	21.87	O
ATOM	3458	CB	PHE	B	216	36.329	41.282	11.107	1.00	22.02	C
ATOM	3459	CG	PHE	B	216	34.921	40.995	11.559	1.00	21.79	C
ATOM	3460	CD1	PHE	B	216	34.211	39.916	11.035	1.00	21.82	C
ATOM	3461	CE1	PHE	B	216	32.908	39.649	11.449	1.00	21.43	C
ATOM	3462	CZ	PHE	B	216	32.305	40.467	12.399	1.00	21.50	C
ATOM	3463	CE2	PHE	B	216	33.006	41.547	12.929	1.00	21.19	C
ATOM	3464	CD2	PHE	B	216	34.304	41.805	12.508	1.00	21.41	C
ATOM	3465	N	GLY	B	217	39.770	39.895	11.563	1.00	22.38	N
ATOM	3466	CA	GLY	B	217	41.086	39.819	10.951	1.00	22.88	C
ATOM	3467	C	GLY	B	217	42.090	40.880	11.374	1.00	23.14	C
ATOM	3468	O	GLY	B	217	43.111	41.058	10.710	1.00	23.01	O
ATOM	3469	N	SER	B	218	41.808	41.578	12.473	1.00	23.62	N
ATOM	3470	CA	SER	B	218	42.713	42.598	13.008	1.00	24.15	C
ATOM	3471	C	SER	B	218	44.036	41.995	13.458	1.00	24.33	C
ATOM	3472	O	SER	B	218	44.075	40.876	13.974	1.00	24.36	O
ATOM	3473	CB	SER	B	218	42.071	43.342	14.182	1.00	24.10	C
ATOM	3474	OG	SER	B	218	40.835	43.924	13.808	1.00	24.72	O
ATOM	3475	N	LYS	B	219	45.112	42.748	13.254	1.00	24.82	N

FIG. 4FFF

ATOM	3476	CA	LYS	B	219	46.447	42.331	13.665	1.00	25.33	C
ATOM	3477	C	LYS	B	219	46.596	42.460	15.182	1.00	25.79	C
ATOM	3478	O	LYS	B	219	46.294	43.517	15.749	1.00	25.77	O
ATOM	3479	CB	LYS	B	219	47.517	43.159	12.949	1.00	25.30	C
ATOM	3480	CG	LYS	B	219	47.636	42.877	11.456	1.00	25.43	C
ATOM	3481	CD	LYS	B	219	47.908	44.151	10.665	1.00	25.36	C
ATOM	3482	N	PRO	B	220	47.033	41.381	15.838	1.00	26.26	N
ATOM	3483	CA	PRO	B	220	47.246	41.382	17.293	1.00	26.66	C
ATOM	3484	C	PRO	B	220	48.379	42.317	17.699	1.00	27.09	C
ATOM	3485	O	PRO	B	220	49.442	42.282	17.076	1.00	27.18	O
ATOM	3486	CB	PRO	B	220	47.626	39.927	17.593	1.00	26.49	C
ATOM	3487	CG	PRO	B	220	47.151	39.160	16.412	1.00	26.47	C
ATOM	3488	CD	PRO	B	220	47.342	40.070	15.240	1.00	26.18	C
ATOM	3489	N	TYR	B	221	48.145	43.136	18.725	1.00	27.68	N
ATOM	3490	CA	TYR	B	221	49.111	44.142	19.177	1.00	28.26	C
ATOM	3491	C	TYR	B	221	49.620	44.945	17.976	1.00	28.85	C
ATOM	3492	O	TYR	B	221	50.804	44.888	17.630	1.00	28.85	O
ATOM	3493	CB	TYR	B	221	50.277	43.498	19.945	1.00	28.09	C
ATOM	3494	CG	TYR	B	221	49.887	42.376	20.889	1.00	27.77	C
ATOM	3495	CD1	TYR	B	221	49.532	42.642	22.211	1.00	27.47	C
ATOM	3496	CE1	TYR	B	221	49.182	41.612	23.083	1.00	27.38	C
ATOM	3497	CZ	TYR	B	221	49.191	40.299	22.631	1.00	27.18	C
ATOM	3498	OH	TYR	B	221	48.844	39.276	23.484	1.00	26.85	O
ATOM	3499	CE2	TYR	B	221	49.544	40.011	21.324	1.00	27.01	C
ATOM	3500	CD2	TYR	B	221	49.894	41.045	20.464	1.00	27.41	C
ATOM	3501	N	ASP	B	222	48.701	45.686	17.357	1.00	29.68	N
ATOM	3502	CA	ASP	B	222	48.901	46.307	16.043	1.00	30.48	C
ATOM	3503	C	ASP	B	222	50.326	46.766	15.730	1.00	31.14	C
ATOM	3504	O	ASP	B	222	51.008	46.158	14.898	1.00	31.16	O
ATOM	3505	CB	ASP	B	222	47.911	47.455	15.829	1.00	30.52	C
ATOM	3506	CG	ASP	B	222	47.534	47.634	14.369	1.00	30.61	C
ATOM	3507	OD1	ASP	B	222	48.443	47.744	13.519	1.00	30.55	O
ATOM	3508	OD2	ASP	B	222	46.350	47.681	13.977	1.00	31.30	O
ATOM	3509	N	GLY	B	223	50.761	47.838	16.390	1.00	31.67	N
ATOM	3510	CA	GLY	B	223	52.038	48.460	16.086	1.00	32.55	C
ATOM	3511	C	GLY	B	223	53.112	48.272	17.140	1.00	33.14	C
ATOM	3512	O	GLY	B	223	54.102	49.006	17.155	1.00	33.45	O
ATOM	3513	N	ILE	B	224	52.917	47.293	18.020	1.00	33.50	N
ATOM	3514	CA	ILE	B	224	53.894	46.978	19.058	1.00	33.95	C
ATOM	3515	C	ILE	B	224	54.982	46.066	18.482	1.00	34.34	C
ATOM	3516	O	ILE	B	224	54.667	45.044	17.872	1.00	34.44	O
ATOM	3517	CB	ILE	B	224	53.202	46.301	20.277	1.00	33.94	C
ATOM	3518	CG1	ILE	B	224	51.889	47.015	20.657	1.00	34.10	C
ATOM	3519	CD1	ILE	B	224	52.038	48.421	21.246	1.00	34.20	C
ATOM	3520	CG2	ILE	B	224	54.168	46.169	21.464	1.00	33.93	C
ATOM	3521	N	PRO	B	225	56.252	46.443	18.650	1.00	34.74	N
ATOM	3522	CA	PRO	B	225	57.378	45.577	18.269	1.00	34.92	C
ATOM	3523	C	PRO	B	225	57.420	44.292	19.093	1.00	35.07	C
ATOM	3524	O	PRO	B	225	57.064	44.309	20.272	1.00	35.07	O
ATOM	3525	CB	PRO	B	225	58.604	46.441	18.581	1.00	34.88	C
ATOM	3526	CG	PRO	B	225	58.088	47.837	18.589	1.00	34.90	C
ATOM	3527	CD	PRO	B	225	56.718	47.737	19.183	1.00	34.86	C
ATOM	3528	N	ALA	B	226	57.863	43.201	18.470	1.00	35.36	N
ATOM	3529	CA	ALA	B	226	57.872	41.876	19.098	1.00	35.42	C
ATOM	3530	C	ALA	B	226	58.869	41.741	20.257	1.00	35.54	C
ATOM	3531	O	ALA	B	226	58.947	40.690	20.898	1.00	35.78	O
ATOM	3532	CB	ALA	B	226	58.120	40.800	18.049	1.00	35.24	C
ATOM	3533	N	SER	B	227	59.619	42.807	20.520	1.00	35.60	N
ATOM	3534	CA	SER	B	227	60.585	42.836	21.617	1.00	35.62	C
ATOM	3535	C	SER	B	227	59.936	43.240	22.944	1.00	35.64	C

FIG. 4GGG

ATOM	3536	O	SER	B	227	60.443	42.908	24.019	1.00	35.51	O
ATOM	3537	CB	SER	B	227	61.739	43.786	21.287	1.00	35.69	C
ATOM	3538	OG	SER	B	227	61.760	44.119	19.908	1.00	35.66	O
ATOM	3539	N	GLU	B	228	58.806	43.939	22.854	1.00	35.65	N
ATOM	3540	CA	GLU	B	228	58.122	44.493	24.022	1.00	35.68	C
ATOM	3541	C	GLU	B	228	56.942	43.655	24.525	1.00	35.68	C
ATOM	3542	O	GLU	B	228	56.374	43.952	25.580	1.00	35.55	O
ATOM	3543	CB	GLU	B	228	57.651	45.919	23.718	1.00	35.71	C
ATOM	3544	N	ILE	B	229	56.590	42.608	23.779	1.00	35.78	N
ATOM	3545	CA	ILE	B	229	55.410	41.787	24.074	1.00	35.74	C
ATOM	3546	C	ILE	B	229	55.489	41.090	25.434	1.00	35.72	C
ATOM	3547	O	ILE	B	229	54.503	41.062	26.174	1.00	35.73	O
ATOM	3548	CB	ILE	B	229	55.145	40.754	22.932	1.00	35.77	C
ATOM	3549	CG1	ILE	B	229	55.077	41.442	21.557	1.00	35.58	C
ATOM	3550	CD1	ILE	B	229	53.839	42.312	21.316	1.00	35.50	C
ATOM	3551	CG2	ILE	B	229	53.884	39.918	23.214	1.00	35.73	C
ATOM	3552	N	SER	B	230	56.660	40.545	25.760	1.00	35.78	N
ATOM	3553	CA	SER	B	230	56.864	39.820	27.018	1.00	35.82	C
ATOM	3554	C	SER	B	230	56.654	40.683	28.266	1.00	35.82	C
ATOM	3555	O	SER	B	230	56.065	40.225	29.245	1.00	35.86	O
ATOM	3556	CB	SER	B	230	58.244	39.154	27.050	1.00	35.84	C
ATOM	3557	OG	SER	B	230	59.286	40.115	27.044	1.00	36.16	O
ATOM	3558	N	SER	B	231	57.131	41.926	28.221	1.00	35.87	N
ATOM	3559	CA	SER	B	231	56.965	42.860	29.339	1.00	35.96	C
ATOM	3560	C	SER	B	231	55.520	43.353	29.461	1.00	35.89	C
ATOM	3561	O	SER	B	231	55.017	43.544	30.571	1.00	35.77	O
ATOM	3562	CB	SER	B	231	57.935	44.040	29.221	1.00	35.94	C
ATOM	3563	OG	SER	B	231	57.689	44.795	28.051	1.00	36.04	O
ATOM	3564	N	ILE	B	232	54.863	43.546	28.318	1.00	35.79	N
ATOM	3565	CA	ILE	B	232	53.441	43.887	28.283	1.00	35.86	C
ATOM	3566	C	ILE	B	232	52.573	42.777	28.885	1.00	35.90	C
ATOM	3567	O	ILE	B	232	51.584	43.058	29.567	1.00	36.04	O
ATOM	3568	CB	ILE	B	232	52.987	44.201	26.841	1.00	35.90	C
ATOM	3569	N	LEU	B	233	52.952	41.523	28.640	1.00	35.72	N
ATOM	3570	CA	LEU	B	233	52.237	40.381	29.206	1.00	35.69	C
ATOM	3571	C	LEU	B	233	52.535	40.203	30.692	1.00	35.77	C
ATOM	3572	O	LEU	B	233	51.651	39.830	31.467	1.00	35.85	O
ATOM	3573	CB	LEU	B	233	52.559	39.091	28.442	1.00	35.73	C
ATOM	3574	CG	LEU	B	233	52.033	38.944	27.008	1.00	35.60	C
ATOM	3575	CD1	LEU	B	233	52.645	37.725	26.344	1.00	35.37	C
ATOM	3576	CD2	LEU	B	233	50.510	38.882	26.963	1.00	35.43	C
ATOM	3577	N	GLU	B	234	53.781	40.474	31.080	1.00	35.90	N
ATOM	3578	CA	GLU	B	234	54.212	40.384	32.477	1.00	35.83	C
ATOM	3579	C	GLU	B	234	53.594	41.482	33.341	1.00	35.52	C
ATOM	3580	O	GLU	B	234	53.462	41.321	34.556	1.00	35.50	O
ATOM	3581	CB	GLU	B	234	55.739	40.430	32.577	1.00	36.07	C
ATOM	3582	CG	GLU	B	234	56.412	39.075	32.403	1.00	36.80	C
ATOM	3583	CD	GLU	B	234	57.862	39.177	31.958	1.00	37.64	C
ATOM	3584	OE1	GLU	B	234	58.230	40.180	31.305	1.00	37.96	O
ATOM	3585	OE2	GLU	B	234	58.639	38.243	32.259	1.00	37.97	O
ATOM	3586	N	LYS	B	235	53.221	42.593	32.706	1.00	35.08	N
ATOM	3587	CA	LYS	B	235	52.548	43.696	33.388	1.00	34.61	C
ATOM	3588	C	LYS	B	235	51.063	43.411	33.611	1.00	34.24	C
ATOM	3589	O	LYS	B	235	50.432	44.014	34.483	1.00	34.52	O
ATOM	3590	CB	LYS	B	235	52.726	45.001	32.607	1.00	34.66	C
ATOM	3591	CG	LYS	B	235	53.332	46.134	33.424	1.00	34.98	C
ATOM	3592	CD	LYS	B	235	54.856	46.200	33.279	1.00	34.96	C
ATOM	3593	CE	LYS	B	235	55.578	45.553	34.464	1.00	35.12	C
ATOM	3594	NZ	LYS	B	235	55.184	46.119	35.793	1.00	34.75	N
ATOM	3595	N	GLY	B	236	50.513	42.493	32.820	1.00	33.54	N

FIG. 4HHH

ATOM	3596	CA	GLY	B	236	49.120	42.105	32.943	1.00	32.71	C
ATOM	3597	C	GLY	B	236	48.246	42.638	31.826	1.00	32.27	C
ATOM	3598	O	GLY	B	236	47.019	42.584	31.917	1.00	32.22	O
ATOM	3599	N	GLU	B	237	48.877	43.154	30.772	1.00	31.81	N
ATOM	3600	CA	GLU	B	237	48.150	43.679	29.621	1.00	31.22	C
ATOM	3601	C	GLU	B	237	47.862	42.578	28.605	1.00	30.80	C
ATOM	3602	O	GLU	B	237	48.762	41.848	28.180	1.00	30.55	O
ATOM	3603	CB	GLU	B	237	48.914	44.833	28.965	1.00	31.35	C
ATOM	3604	N	ARG	B	238	46.593	42.469	28.230	1.00	30.23	N
ATOM	3605	CA	ARG	B	238	46.142	41.467	27.275	1.00	29.51	C
ATOM	3606	C	ARG	B	238	45.619	42.145	26.016	1.00	29.05	C
ATOM	3607	O	ARG	B	238	45.655	43.374	25.909	1.00	29.03	O
ATOM	3608	CB	ARG	B	238	45.059	40.587	27.911	1.00	29.53	C
ATOM	3609	CG	ARG	B	238	45.572	39.661	29.009	1.00	29.53	C
ATOM	3610	CD	ARG	B	238	46.682	38.722	28.553	1.00	29.54	C
ATOM	3611	NE	ARG	B	238	47.386	38.081	29.662	1.00	29.35	N
ATOM	3612	CZ	ARG	B	238	48.448	38.588	30.280	1.00	29.15	C
ATOM	3613	NH1	ARG	B	238	49.016	37.917	31.271	1.00	29.29	N
ATOM	3614	NH2	ARG	B	238	48.942	39.764	29.921	1.00	28.79	N
ATOM	3615	N	LEU	B	239	45.153	41.341	25.061	1.00	28.36	N
ATOM	3616	CA	LEU	B	239	44.513	41.859	23.855	1.00	27.69	C
ATOM	3617	C	LEU	B	239	43.159	42.462	24.219	1.00	27.28	C
ATOM	3618	O	LEU	B	239	42.451	41.915	25.065	1.00	27.37	O
ATOM	3619	CB	LEU	B	239	44.342	40.750	22.814	1.00	27.61	C
ATOM	3620	CG	LEU	B	239	45.575	40.346	22.001	1.00	27.34	C
ATOM	3621	CD1	LEU	B	239	45.458	38.901	21.535	1.00	27.11	C
ATOM	3622	CD2	LEU	B	239	45.788	41.277	20.817	1.00	26.93	C
ATOM	3623	N	PRO	B	240	42.801	43.586	23.593	1.00	26.91	N
ATOM	3624	CA	PRO	B	240	41.571	44.308	23.945	1.00	26.60	C
ATOM	3625	C	PRO	B	240	40.304	43.538	23.588	1.00	26.38	C
ATOM	3626	O	PRO	B	240	40.332	42.697	22.688	1.00	26.35	O
ATOM	3627	CB	PRO	B	240	41.667	45.588	23.107	1.00	26.56	C
ATOM	3628	CG	PRO	B	240	42.535	45.230	21.961	1.00	26.48	C
ATOM	3629	CD	PRO	B	240	43.533	44.253	22.500	1.00	26.91	C
ATOM	3630	N	GLN	B	241	39.215	43.825	24.298	1.00	26.12	N
ATOM	3631	CA	GLN	B	241	37.916	43.221	24.018	1.00	25.84	C
ATOM	3632	C	GLN	B	241	37.402	43.664	22.649	1.00	25.72	C
ATOM	3633	O	GLN	B	241	37.301	44.864	22.384	1.00	25.98	O
ATOM	3634	CB	GLN	B	241	36.905	43.582	25.111	1.00	25.79	C
ATOM	3635	CG	GLN	B	241	35.552	42.887	24.977	1.00	25.44	C
ATOM	3636	CD	GLN	B	241	34.592	43.211	26.113	1.00	25.15	C
ATOM	3637	OE1	GLN	B	241	34.977	43.814	27.114	1.00	24.87	O
ATOM	3638	NE2	GLN	B	241	33.338	42.804	25.957	1.00	25.48	N
ATOM	3639	N	PRO	B	242	37.102	42.697	21.781	1.00	25.53	N
ATOM	3640	CA	PRO	B	242	36.520	42.985	20.463	1.00	25.41	C
ATOM	3641	C	PRO	B	242	35.138	43.639	20.569	1.00	25.21	C
ATOM	3642	O	PRO	B	242	34.315	43.179	21.362	1.00	24.97	O
ATOM	3643	CB	PRO	B	242	36.406	41.597	19.822	1.00	25.42	C
ATOM	3644	CG	PRO	B	242	37.384	40.756	20.570	1.00	25.45	C
ATOM	3645	CD	PRO	B	242	37.318	41.253	21.980	1.00	25.44	C
ATOM	3646	N	PRO	B	243	34.900	44.697	19.790	1.00	25.22	N
ATOM	3647	CA	PRO	B	243	33.629	45.435	19.820	1.00	25.23	C
ATOM	3648	C	PRO	B	243	32.366	44.575	19.719	1.00	25.20	C
ATOM	3649	O	PRO	B	243	31.361	44.968	20.304	1.00	25.32	O
ATOM	3650	CB	PRO	B	243	33.738	46.361	18.607	1.00	25.15	C
ATOM	3651	CG	PRO	B	243	35.186	46.595	18.462	1.00	25.16	C
ATOM	3652	CD	PRO	B	243	35.849	45.294	18.831	1.00	25.26	C
ATOM	3653	N	ILE	B	244	32.412	43.446	19.014	1.00	25.18	N
ATOM	3654	CA	ILE	B	244	31.235	42.577	18.874	1.00	25.21	C
ATOM	3655	C	ILE	B	244	31.034	41.618	20.055	1.00	25.29	C

FIG. 4III

ATOM	3656	O	ILE	B	244	29.957	41.032	20.209	1.00	25.56	O
ATOM	3657	CB	ILE	B	244	31.267	41.774	17.537	1.00	25.23	C
ATOM	3658	CG1	ILE	B	244	32.432	40.775	17.517	1.00	25.07	C
ATOM	3659	CD1	ILE	B	244	32.108	39.464	16.823	1.00	24.83	C
ATOM	3660	CG2	ILE	B	244	31.292	42.713	16.325	1.00	25.08	C
ATOM	3661	N	CYS	B	245	32.065	41.475	20.885	1.00	25.13	N
ATOM	3662	CA	CYS	B	245	32.097	40.455	21.932	1.00	24.91	C
ATOM	3663	C	CYS	B	245	31.433	40.870	23.235	1.00	24.82	C
ATOM	3664	O	CYS	B	245	31.682	41.963	23.745	1.00	25.06	O
ATOM	3665	CB	CYS	B	245	33.544	40.059	22.232	1.00	24.87	C
ATOM	3666	SG	CYS	B	245	34.222	38.824	21.117	1.00	24.95	S
ATOM	3667	N	THR	B	246	30.605	39.979	23.777	1.00	24.67	N
ATOM	3668	CA	THR	B	246	30.121	40.106	25.154	1.00	24.56	C
ATOM	3669	C	THR	B	246	31.246	39.717	26.103	1.00	24.45	C
ATOM	3670	O	THR	B	246	32.233	39.108	25.681	1.00	24.60	O
ATOM	3671	CB	THR	B	246	28.908	39.190	25.410	1.00	24.47	C
ATOM	3672	OG1	THR	B	246	29.211	37.860	24.973	1.00	24.53	O
ATOM	3673	CG2	THR	B	246	27.716	39.600	24.553	1.00	24.30	C
ATOM	3674	N	ILE	B	247	31.095	40.057	27.383	1.00	24.22	N
ATOM	3675	CA	ILE	B	247	32.096	39.704	28.392	1.00	24.03	C
ATOM	3676	C	ILE	B	247	32.222	38.182	28.580	1.00	23.94	C
ATOM	3677	O	ILE	B	247	33.278	37.689	28.974	1.00	23.84	O
ATOM	3678	CB	ILE	B	247	31.844	40.461	29.734	1.00	23.96	C
ATOM	3679	CG1	ILE	B	247	33.084	40.407	30.633	1.00	24.08	C
ATOM	3680	CD1	ILE	B	247	33.890	41.685	30.652	1.00	24.75	C
ATOM	3681	CG2	ILE	B	247	30.603	39.932	30.463	1.00	24.05	C
ATOM	3682	N	ASP	B	248	31.147	37.455	28.268	1.00	23.94	N
ATOM	3683	CA	ASP	B	248	31.139	35.991	28.286	1.00	23.92	C
ATOM	3684	C	ASP	B	248	32.221	35.417	27.369	1.00	24.01	C
ATOM	3685	O	ASP	B	248	33.051	34.619	27.806	1.00	24.07	O
ATOM	3686	CB	ASP	B	248	29.769	35.447	27.861	1.00	23.91	C
ATOM	3687	CG	ASP	B	248	28.609	36.160	28.537	1.00	24.03	C
ATOM	3688	OD1	ASP	B	248	28.381	37.355	28.245	1.00	23.78	O
ATOM	3689	OD2	ASP	B	248	27.861	35.598	29.365	1.00	24.27	O
ATOM	3690	N	VAL	B	249	32.206	35.836	26.104	1.00	24.12	N
ATOM	3691	CA	VAL	B	249	33.174	35.369	25.108	1.00	24.25	C
ATOM	3692	C	VAL	B	249	34.576	35.929	25.378	1.00	24.44	C
ATOM	3693	O	VAL	B	249	35.574	35.223	25.199	1.00	24.79	O
ATOM	3694	CB	VAL	B	249	32.723	35.695	23.650	1.00	24.18	C
ATOM	3695	CG1	VAL	B	249	33.731	35.177	22.635	1.00	23.89	C
ATOM	3696	CG2	VAL	B	249	31.350	35.099	23.358	1.00	23.95	C
ATOM	3697	N	TYR	B	250	34.647	37.186	25.816	1.00	24.26	N
ATOM	3698	CA	TYR	B	250	35.929	37.817	26.126	1.00	24.14	C
ATOM	3699	C	TYR	B	250	36.645	37.172	27.319	1.00	24.25	C
ATOM	3700	O	TYR	B	250	37.872	37.081	27.330	1.00	24.26	O
ATOM	3701	CB	TYR	B	250	35.770	39.326	26.345	1.00	23.90	C
ATOM	3702	CG	TYR	B	250	37.084	40.050	26.576	1.00	23.47	C
ATOM	3703	CD1	TYR	B	250	37.255	40.887	27.678	1.00	23.11	C
ATOM	3704	CE1	TYR	B	250	38.462	41.549	27.899	1.00	22.88	C
ATOM	3705	CZ	TYR	B	250	39.511	41.375	27.009	1.00	22.92	C
ATOM	3706	OH	TYR	B	250	40.705	42.026	27.222	1.00	22.75	O
ATOM	3707	CE2	TYR	B	250	39.368	40.544	25.909	1.00	22.93	C
ATOM	3708	CD2	TYR	B	250	38.159	39.890	25.696	1.00	23.00	C
ATOM	3709	N	MET	B	251	35.880	36.719	28.310	1.00	24.41	N
ATOM	3710	CA	MET	B	251	36.456	36.053	29.479	1.00	24.57	C
ATOM	3711	C	MET	B	251	37.110	34.713	29.148	1.00	24.63	C
ATOM	3712	O	MET	B	251	38.071	34.312	29.807	1.00	24.55	O
ATOM	3713	CB	MET	B	251	35.417	35.875	30.585	1.00	24.68	C
ATOM	3714	CG	MET	B	251	35.901	36.350	31.942	1.00	24.76	C
ATOM	3715	SD	MET	B	251	36.242	38.117	31.953	1.00	25.31	S

FIG. 4JJJ

ATOM	3716	CE	MET	B	251	37.961	38.126	32.390	1.00	24.63	C
ATOM	3717	N	ILE	B	252	36.582	34.027	28.135	1.00	24.73	N
ATOM	3718	CA	ILE	B	252	37.204	32.813	27.608	1.00	24.72	C
ATOM	3719	C	ILE	B	252	38.610	33.137	27.103	1.00	24.59	C
ATOM	3720	O	ILE	B	252	39.572	32.452	27.449	1.00	24.57	O
ATOM	3721	CB	ILE	B	252	36.335	32.191	26.483	1.00	24.77	C
ATOM	3722	CG1	ILE	B	252	35.067	31.564	27.069	1.00	24.97	C
ATOM	3723	CD1	ILE	B	252	33.921	31.454	26.081	1.00	25.20	C
ATOM	3724	CG2	ILE	B	252	37.120	31.146	25.694	1.00	24.63	C
ATOM	3725	N	MET	B	253	38.711	34.201	26.307	1.00	24.61	N
ATOM	3726	CA	MET	B	253	39.978	34.652	25.735	1.00	24.61	C
ATOM	3727	C	MET	B	253	41.000	35.017	26.814	1.00	24.57	C
ATOM	3728	O	MET	B	253	42.156	34.591	26.746	1.00	24.60	O
ATOM	3729	CB	MET	B	253	39.749	35.845	24.800	1.00	24.68	C
ATOM	3730	CG	MET	B	253	39.200	35.486	23.429	1.00	24.47	C
ATOM	3731	SD	MET	B	253	38.876	36.958	22.437	1.00	24.97	S
ATOM	3732	CE	MET	B	253	37.146	36.767	22.081	1.00	24.50	C
ATOM	3733	N	VAL	B	254	40.562	35.796	27.803	1.00	24.43	N
ATOM	3734	CA	VAL	B	254	41.411	36.196	28.928	1.00	24.22	C
ATOM	3735	C	VAL	B	254	41.940	34.970	29.672	1.00	24.26	C
ATOM	3736	O	VAL	B	254	43.120	34.915	30.026	1.00	24.29	O
ATOM	3737	CB	VAL	B	254	40.661	37.149	29.903	1.00	24.23	C
ATOM	3738	CG1	VAL	B	254	41.502	37.460	31.141	1.00	23.78	C
ATOM	3739	CG2	VAL	B	254	40.265	38.445	29.196	1.00	24.23	C
ATOM	3740	N	LYS	B	255	41.064	33.987	29.884	1.00	24.32	N
ATOM	3741	CA	LYS	B	255	41.418	32.739	30.561	1.00	24.48	C
ATOM	3742	C	LYS	B	255	42.479	31.950	29.799	1.00	24.46	C
ATOM	3743	O	LYS	B	255	43.288	31.253	30.405	1.00	24.53	O
ATOM	3744	CB	LYS	B	255	40.180	31.866	30.766	1.00	24.59	C
ATOM	3745	CG	LYS	B	255	39.359	32.211	31.998	1.00	25.26	C
ATOM	3746	CD	LYS	B	255	38.444	31.059	32.392	1.00	25.97	C
ATOM	3747	CE	LYS	B	255	37.128	31.102	31.622	1.00	26.83	C
ATOM	3748	NZ	LYS	B	255	36.307	29.878	31.845	1.00	27.09	N
ATOM	3749	N	CYS	B	256	42.469	32.062	28.471	1.00	24.37	N
ATOM	3750	CA	CYS	B	256	43.485	31.423	27.638	1.00	24.31	C
ATOM	3751	C	CYS	B	256	44.857	32.097	27.778	1.00	24.28	C
ATOM	3752	O	CYS	B	256	45.881	31.490	27.466	1.00	24.08	O
ATOM	3753	CB	CYS	B	256	43.049	31.400	26.170	1.00	24.16	C
ATOM	3754	SG	CYS	B	256	41.586	30.394	25.828	1.00	24.07	S
ATOM	3755	N	TRP	B	257	44.868	33.343	28.253	1.00	24.42	N
ATOM	3756	CA	TRP	B	257	46.106	34.122	28.360	1.00	24.78	C
ATOM	3757	C	TRP	B	257	46.595	34.340	29.804	1.00	24.89	C
ATOM	3758	O	TRP	B	257	47.131	35.399	30.135	1.00	24.88	O
ATOM	3759	CB	TRP	B	257	45.969	35.471	27.638	1.00	24.62	C
ATOM	3760	CG	TRP	B	257	45.406	35.408	26.242	1.00	24.90	C
ATOM	3761	CD1	TRP	B	257	45.695	34.486	25.273	1.00	24.93	C
ATOM	3762	NE1	TRP	B	257	44.989	34.764	24.127	1.00	25.14	N
ATOM	3763	CE2	TRP	B	257	44.226	35.883	24.332	1.00	25.19	C
ATOM	3764	CD2	TRP	B	257	44.469	36.320	25.655	1.00	25.19	C
ATOM	3765	CE3	TRP	B	257	43.797	37.464	26.116	1.00	24.95	C
ATOM	3766	CZ3	TRP	B	257	42.924	38.123	25.257	1.00	25.02	C
ATOM	3767	CH2	TRP	B	257	42.711	37.664	23.946	1.00	24.95	C
ATOM	3768	CZ2	TRP	B	257	43.348	36.549	23.468	1.00	25.07	C
ATOM	3769	N	MET	B	258	46.421	33.331	30.653	1.00	25.25	N
ATOM	3770	CA	MET	B	258	46.883	33.404	32.039	1.00	25.54	C
ATOM	3771	C	MET	B	258	48.317	32.896	32.159	1.00	25.63	C
ATOM	3772	O	MET	B	258	48.696	31.938	31.482	1.00	25.71	O
ATOM	3773	CB	MET	B	258	45.956	32.611	32.965	1.00	25.60	C
ATOM	3774	CG	MET	B	258	44.499	33.032	32.887	1.00	25.97	C
ATOM	3775	SD	MET	B	258	43.726	33.239	34.491	1.00	26.80	S

FIG. 4KKK

ATOM	3776	CE	MET	B	258	42.833	34.773	34.239	1.00	26.84	C
ATOM	3777	N	ILE	B	259	49.105	33.544	33.018	1.00	25.78	N
ATOM	3778	CA	ILE	B	259	50.520	33.200	33.200	1.00	25.96	C
ATOM	3779	C	ILE	B	259	50.678	31.740	33.618	1.00	25.96	C
ATOM	3780	O	ILE	B	259	51.483	31.006	33.044	1.00	26.06	O
ATOM	3781	CB	ILE	B	259	51.212	34.151	34.220	1.00	25.92	C
ATOM	3782	CG1	ILE	B	259	50.980	35.628	33.858	1.00	26.17	C
ATOM	3783	CD1	ILE	B	259	51.630	36.095	32.551	1.00	26.28	C
ATOM	3784	CG2	ILE	B	259	52.706	33.841	34.333	1.00	26.02	C
ATOM	3785	N	ASP	B	260	49.898	31.336	34.615	1.00	26.12	N
ATOM	3786	CA	ASP	B	260	49.836	29.950	35.052	1.00	26.15	C
ATOM	3787	C	ASP	B	260	49.059	29.138	34.019	1.00	26.37	C
ATOM	3788	O	ASP	B	260	47.860	29.359	33.811	1.00	26.43	O
ATOM	3789	CB	ASP	B	260	49.182	29.863	36.436	1.00	26.04	C
ATOM	3790	CG	ASP	B	260	48.973	28.433	36.906	1.00	26.23	C
ATOM	3791	OD1	ASP	B	260	47.947	28.177	37.572	1.00	26.35	O
ATOM	3792	OD2	ASP	B	260	49.773	27.501	36.669	1.00	26.31	O
ATOM	3793	N	ALA	B	261	49.758	28.206	33.372	1.00	26.54	N
ATOM	3794	CA	ALA	B	261	49.189	27.369	32.315	1.00	26.58	C
ATOM	3795	C	ALA	B	261	48.043	26.484	32.805	1.00	26.73	C
ATOM	3796	O	ALA	B	261	47.130	26.160	32.040	1.00	26.72	O
ATOM	3797	CB	ALA	B	261	50.275	26.522	31.674	1.00	26.47	C
ATOM	3798	N	ASP	B	262	48.100	26.104	34.081	1.00	26.87	N
ATOM	3799	CA	ASP	B	262	47.091	25.245	34.701	1.00	26.98	C
ATOM	3800	C	ASP	B	262	45.716	25.912	34.766	1.00	26.83	C
ATOM	3801	O	ASP	B	262	44.686	25.241	34.653	1.00	27.04	O
ATOM	3802	CB	ASP	B	262	47.537	24.834	36.105	1.00	27.19	C
ATOM	3803	CG	ASP	B	262	48.790	23.974	36.093	1.00	27.88	C
ATOM	3804	OD1	ASP	B	262	49.868	24.480	36.481	1.00	27.90	O
ATOM	3805	OD2	ASP	B	262	48.790	22.781	35.714	1.00	28.45	O
ATOM	3806	N	SER	B	263	45.712	27.231	34.941	1.00	26.47	N
ATOM	3807	CA	SER	B	263	44.480	28.003	35.063	1.00	26.00	C
ATOM	3808	C	SER	B	263	43.765	28.202	33.723	1.00	25.73	C
ATOM	3809	O	SER	B	263	42.572	28.516	33.695	1.00	25.93	O
ATOM	3810	CB	SER	B	263	44.768	29.352	35.722	1.00	26.12	C
ATOM	3811	OG	SER	B	263	45.106	29.182	37.090	1.00	26.04	O
ATOM	3812	N	ARG	B	264	44.497	28.019	32.624	1.00	25.11	N
ATOM	3813	CA	ARG	B	264	43.930	28.092	31.275	1.00	24.40	C
ATOM	3814	C	ARG	B	264	42.929	26.958	31.031	1.00	24.16	C
ATOM	3815	O	ARG	B	264	43.097	25.862	31.570	1.00	24.04	O
ATOM	3816	CB	ARG	B	264	45.037	28.024	30.222	1.00	24.15	C
ATOM	3817	CG	ARG	B	264	45.965	29.215	30.195	1.00	23.52	C
ATOM	3818	CD	ARG	B	264	47.111	29.068	29.216	1.00	22.50	C
ATOM	3819	NE	ARG	B	264	48.246	29.902	29.591	1.00	21.91	N
ATOM	3820	CZ	ARG	B	264	49.502	29.661	29.248	1.00	21.59	C
ATOM	3821	NH1	ARG	B	264	50.463	30.483	29.645	1.00	21.71	N
ATOM	3822	NH2	ARG	B	264	49.804	28.603	28.508	1.00	21.46	N
ATOM	3823	N	PRO	B	265	41.895	27.218	30.227	1.00	23.89	N
ATOM	3824	CA	PRO	B	265	40.892	26.198	29.897	1.00	23.77	C
ATOM	3825	C	PRO	B	265	41.477	25.020	29.123	1.00	23.71	C
ATOM	3826	O	PRO	B	265	42.526	25.146	28.486	1.00	23.83	O
ATOM	3827	CB	PRO	B	265	39.900	26.954	29.003	1.00	23.74	C
ATOM	3828	CG	PRO	B	265	40.136	28.388	29.279	1.00	23.61	C
ATOM	3829	CD	PRO	B	265	41.591	28.507	29.579	1.00	23.87	C
ATOM	3830	N	LYS	B	266	40.797	23.883	29.192	1.00	23.61	N
ATOM	3831	CA	LYS	B	266	41.151	22.722	28.388	1.00	23.45	C
ATOM	3832	C	LYS	B	266	40.340	22.762	27.096	1.00	23.38	C
ATOM	3833	O	LYS	B	266	39.217	23.277	27.082	1.00	23.33	O
ATOM	3834	CB	LYS	B	266	40.870	21.429	29.161	1.00	23.47	C
ATOM	3835	CG	LYS	B	266	41.887	21.114	30.249	1.00	23.14	C

FIG. 4LLL



ATOM	3836	N	PHE	B	267	40.905	22.220	26.018	1.00	23.21	N
ATOM	3837	CA	PHE	B	267	40.234	22.219	24.714	1.00	23.23	C
ATOM	3838	C	PHE	B	267	38.878	21.510	24.739	1.00	23.35	C
ATOM	3839	O	PHE	B	267	37.957	21.897	24.013	1.00	23.52	O
ATOM	3840	CB	PHE	B	267	41.134	21.622	23.626	1.00	23.04	C
ATOM	3841	CG	PHE	B	267	42.172	22.580	23.102	1.00	22.55	C
ATOM	3842	CD1	PHE	B	267	41.797	23.779	22.502	1.00	21.94	C
ATOM	3843	CE1	PHE	B	267	42.755	24.669	22.022	1.00	21.64	C
ATOM	3844	CZ	PHE	B	267	44.105	24.360	22.136	1.00	21.59	C
ATOM	3845	CE2	PHE	B	267	44.494	23.163	22.728	1.00	21.76	C
ATOM	3846	CD2	PHE	B	267	43.528	22.280	23.208	1.00	22.15	C
ATOM	3847	N	ARG	B	268	38.764	20.479	25.575	1.00	23.30	N
ATOM	3848	CA	ARG	B	268	37.503	19.763	25.764	1.00	23.41	C
ATOM	3849	C	ARG	B	268	36.434	20.675	26.377	1.00	23.37	C
ATOM	3850	O	ARG	B	268	35.277	20.652	25.955	1.00	23.33	O
ATOM	3851	CB	ARG	B	268	37.712	18.516	26.629	1.00	23.25	C
ATOM	3852	N	GLU	B	269	36.837	21.479	27.362	1.00	23.40	N
ATOM	3853	CA	GLU	B	269	35.951	22.461	27.993	1.00	23.39	C
ATOM	3854	C	GLU	B	269	35.597	23.593	27.031	1.00	23.21	C
ATOM	3855	O	GLU	B	269	34.508	24.163	27.107	1.00	23.24	O
ATOM	3856	CB	GLU	B	269	36.597	23.045	29.251	1.00	23.52	C
ATOM	3857	CG	GLU	B	269	36.686	22.083	30.427	1.00	23.83	C
ATOM	3858	CD	GLU	B	269	37.748	22.483	31.438	1.00	24.73	C
ATOM	3859	OE1	GLU	B	269	38.548	23.402	31.149	1.00	25.10	O
ATOM	3860	OE2	GLU	B	269	37.783	21.878	32.531	1.00	25.14	O
ATOM	3861	N	LEU	B	270	36.527	23.908	26.133	1.00	23.07	N
ATOM	3862	CA	LEU	B	270	36.321	24.933	25.114	1.00	22.76	C
ATOM	3863	C	LEU	B	270	35.275	24.523	24.075	1.00	22.71	C
ATOM	3864	O	LEU	B	270	34.531	25.369	23.577	1.00	22.69	O
ATOM	3865	CB	LEU	B	270	37.649	25.288	24.433	1.00	22.70	C
ATOM	3866	CG	LEU	B	270	38.618	26.170	25.229	1.00	22.46	C
ATOM	3867	CD1	LEU	B	270	40.030	26.069	24.672	1.00	22.28	C
ATOM	3868	CD2	LEU	B	270	38.159	27.615	25.245	1.00	22.09	C
ATOM	3869	N	ILE	B	271	35.225	23.230	23.750	1.00	22.59	N
ATOM	3870	CA	ILE	B	271	34.211	22.702	22.835	1.00	22.57	C
ATOM	3871	C	ILE	B	271	32.812	22.885	23.422	1.00	22.61	C
ATOM	3872	O	ILE	B	271	31.893	23.305	22.720	1.00	22.45	O
ATOM	3873	CB	ILE	B	271	34.462	21.202	22.514	1.00	22.54	C
ATOM	3874	CG1	ILE	B	271	35.747	21.021	21.706	1.00	22.32	C
ATOM	3875	CD1	ILE	B	271	36.329	19.621	21.789	1.00	21.94	C
ATOM	3876	CG2	ILE	B	271	33.276	20.592	21.757	1.00	22.48	C
ATOM	3877	N	ILE	B	272	32.669	22.575	24.710	1.00	22.76	N
ATOM	3878	CA	ILE	B	272	31.377	22.631	25.396	1.00	22.92	C
ATOM	3879	C	ILE	B	272	30.822	24.053	25.461	1.00	23.12	C
ATOM	3880	O	ILE	B	272	29.682	24.295	25.055	1.00	23.21	O
ATOM	3881	CB	ILE	B	272	31.468	22.006	26.819	1.00	22.82	C
ATOM	3882	CG1	ILE	B	272	31.923	20.543	26.743	1.00	22.59	C
ATOM	3883	CD1	ILE	B	272	32.685	20.065	27.961	1.00	21.74	C
ATOM	3884	CG2	ILE	B	272	30.129	22.098	27.538	1.00	22.80	C
ATOM	3885	N	GLU	B	273	31.633	24.986	25.956	1.00	23.34	N
ATOM	3886	CA	GLU	B	273	31.180	26.355	26.192	1.00	23.79	C
ATOM	3887	C	GLU	B	273	30.864	27.118	24.906	1.00	23.85	C
ATOM	3888	O	GLU	B	273	29.939	27.931	24.877	1.00	23.84	O
ATOM	3889	CB	GLU	B	273	32.190	27.123	27.049	1.00	24.01	C
ATOM	3890	CG	GLU	B	273	31.702	27.421	28.464	1.00	24.72	C
ATOM	3891	CD	GLU	B	273	31.395	26.165	29.265	1.00	25.33	C
ATOM	3892	OE1	GLU	B	273	32.345	25.518	29.760	1.00	25.88	O
ATOM	3893	OE2	GLU	B	273	30.202	25.819	29.397	1.00	25.43	O
ATOM	3894	N	PHE	B	274	31.624	26.848	23.849	1.00	23.85	N
ATOM	3895	CA	PHE	B	274	31.379	27.482	22.559	1.00	23.81	C

FIG. 4MMM

ATOM	3896	C	PHE	B	274	30.189	26.858	21.835	1.00	24.11	C
ATOM	3897	O	PHE	B	274	29.513	27.531	21.056	1.00	24.18	O
ATOM	3898	CB	PHE	B	274	32.634	27.463	21.685	1.00	23.47	C
ATOM	3899	CG	PHE	B	274	33.524	28.661	21.880	1.00	22.83	C
ATOM	3900	CD1	PHE	B	274	33.143	29.915	21.407	1.00	22.33	C
ATOM	3901	CE1	PHE	B	274	33.962	31.027	21.586	1.00	21.86	C
ATOM	3902	CZ	PHE	B	274	35.178	30.891	22.247	1.00	21.83	C
ATOM	3903	CE2	PHE	B	274	35.567	29.643	22.726	1.00	22.15	C
ATOM	3904	CD2	PHE	B	274	34.740	28.537	22.541	1.00	22.25	C
ATOM	3905	N	SER	B	275	29.937	25.576	22.100	1.00	24.38	N
ATOM	3906	CA	SER	B	275	28.752	24.892	21.589	1.00	24.77	C
ATOM	3907	C	SER	B	275	27.493	25.446	22.243	1.00	25.16	C
ATOM	3908	O	SER	B	275	26.458	25.592	21.589	1.00	25.23	O
ATOM	3909	CB	SER	B	275	28.841	23.386	21.840	1.00	24.72	C
ATOM	3910	OG	SER	B	275	29.854	22.793	21.046	1.00	25.10	O
ATOM	3911	N	LYS	B	276	27.595	25.742	23.538	1.00	25.66	N
ATOM	3912	CA	LYS	B	276	26.512	26.348	24.304	1.00	26.04	C
ATOM	3913	C	LYS	B	276	26.185	27.730	23.745	1.00	26.35	C
ATOM	3914	O	LYS	B	276	25.018	28.110	23.652	1.00	26.43	O
ATOM	3915	CB	LYS	B	276	26.901	26.446	25.782	1.00	26.03	C
ATOM	3916	CG	LYS	B	276	25.763	26.832	26.715	1.00	25.87	C
ATOM	3917	N	MET	B	277	27.228	28.465	23.368	1.00	26.84	N
ATOM	3918	CA	MET	B	277	27.082	29.782	22.756	1.00	27.25	C
ATOM	3919	C	MET	B	277	26.618	29.679	21.302	1.00	27.53	C
ATOM	3920	O	MET	B	277	25.908	30.553	20.814	1.00	27.62	O
ATOM	3921	CB	MET	B	277	28.391	30.570	22.855	1.00	27.16	C
ATOM	3922	CG	MET	B	277	28.783	30.929	24.282	1.00	27.12	C
ATOM	3923	SD	MET	B	277	30.441	31.625	24.421	1.00	27.75	S
ATOM	3924	CE	MET	B	277	30.391	32.243	26.081	1.00	27.55	C
ATOM	3925	N	ALA	B	278	27.011	28.601	20.626	1.00	28.12	N
ATOM	3926	CA	ALA	B	278	26.583	28.336	19.250	1.00	28.73	C
ATOM	3927	C	ALA	B	278	25.097	27.981	19.163	1.00	29.23	C
ATOM	3928	O	ALA	B	278	24.518	27.967	18.073	1.00	29.49	O
ATOM	3929	CB	ALA	B	278	27.428	27.230	18.634	1.00	28.63	C
ATOM	3930	N	ARG	B	279	24.493	27.695	20.314	1.00	29.77	N
ATOM	3931	CA	ARG	B	279	23.075	27.360	20.398	1.00	30.15	C
ATOM	3932	C	ARG	B	279	22.201	28.612	20.394	1.00	30.30	C
ATOM	3933	O	ARG	B	279	21.026	28.556	20.029	1.00	30.44	O
ATOM	3934	CB	ARG	B	279	22.806	26.539	21.659	1.00	30.29	C
ATOM	3935	CG	ARG	B	279	22.364	25.110	21.394	1.00	30.93	C
ATOM	3936	CD	ARG	B	279	23.462	24.072	21.569	1.00	31.45	C
ATOM	3937	NE	ARG	B	279	23.708	23.750	22.975	1.00	31.80	N
ATOM	3938	CZ	ARG	B	279	24.647	22.910	23.403	1.00	32.04	C
ATOM	3939	NH1	ARG	B	279	24.792	22.686	24.703	1.00	32.21	N
ATOM	3940	NH2	ARG	B	279	25.444	22.290	22.539	1.00	31.88	N
ATOM	3941	N	ASP	B	280	22.785	29.734	20.805	1.00	30.56	N
ATOM	3942	CA	ASP	B	280	22.081	31.010	20.904	1.00	30.76	C
ATOM	3943	C	ASP	B	280	23.089	32.142	20.663	1.00	30.85	C
ATOM	3944	O	ASP	B	280	23.477	32.846	21.600	1.00	30.94	O
ATOM	3945	CB	ASP	B	280	21.418	31.130	22.284	1.00	30.99	C
ATOM	3946	CG	ASP	B	280	20.542	32.370	22.426	1.00	31.58	C
ATOM	3947	OD1	ASP	B	280	20.137	32.963	21.401	1.00	32.09	O
ATOM	3948	OD2	ASP	B	280	20.204	32.819	23.542	1.00	31.92	O
ATOM	3949	N	PRO	B	281	23.509	32.313	19.406	1.00	30.83	N
ATOM	3950	CA	PRO	B	281	24.641	33.191	19.071	1.00	30.79	C
ATOM	3951	C	PRO	B	281	24.399	34.683	19.311	1.00	30.73	C
ATOM	3952	O	PRO	B	281	25.361	35.416	19.558	1.00	30.61	O
ATOM	3953	CB	PRO	B	281	24.864	32.919	17.580	1.00	30.83	C
ATOM	3954	CG	PRO	B	281	23.553	32.440	17.078	1.00	30.89	C
ATOM	3955	CD	PRO	B	281	22.931	31.681	18.205	1.00	30.85	C

FIG. 4NNN

ATOM	3956	N	GLN	B	282	23.143	35.115	19.244	1.00	30.74	N
ATOM	3957	CA	GLN	B	282	22.789	36.524	19.422	1.00	30.84	C
ATOM	3958	C	GLN	B	282	23.001	36.998	20.861	1.00	30.75	C
ATOM	3959	O	GLN	B	282	23.153	38.194	21.114	1.00	30.84	O
ATOM	3960	CB	GLN	B	282	21.340	36.774	18.992	1.00	30.99	C
ATOM	3961	CG	GLN	B	282	20.970	36.173	17.635	1.00	31.18	C
ATOM	3962	CD	GLN	B	282	20.824	37.215	16.543	1.00	31.13	C
ATOM	3963	OE1	GLN	B	282	20.420	38.347	16.805	1.00	31.87	O
ATOM	3964	NE2	GLN	B	282	21.143	36.832	15.314	1.00	31.11	N
ATOM	3965	N	ARG	B	283	23.015	36.047	21.791	1.00	30.72	N
ATOM	3966	CA	ARG	B	283	23.224	36.327	23.206	1.00	30.66	C
ATOM	3967	C	ARG	B	283	24.686	36.632	23.523	1.00	30.48	C
ATOM	3968	O	ARG	B	283	24.986	37.264	24.538	1.00	30.68	O
ATOM	3969	CB	ARG	B	283	22.751	35.137	24.049	1.00	30.76	C
ATOM	3970	CG	ARG	B	283	22.352	35.492	25.476	1.00	31.39	C
ATOM	3971	CD	ARG	B	283	21.641	34.373	26.224	1.00	32.24	C
ATOM	3972	NE	ARG	B	283	22.182	34.181	27.570	1.00	32.93	N
ATOM	3973	CZ	ARG	B	283	21.462	33.846	28.638	1.00	33.23	C
ATOM	3974	NH1	ARG	B	283	22.059	33.695	29.814	1.00	33.09	N
ATOM	3975	NH2	ARG	B	283	20.149	33.658	28.541	1.00	33.41	N
ATOM	3976	N	TYR	B	284	25.591	36.190	22.654	1.00	30.20	N
ATOM	3977	CA	TYR	B	284	27.020	36.234	22.957	1.00	29.92	C
ATOM	3978	C	TYR	B	284	27.840	37.084	21.988	1.00	29.85	C
ATOM	3979	O	TYR	B	284	28.956	37.494	22.313	1.00	29.72	O
ATOM	3980	CB	TYR	B	284	27.583	34.812	23.069	1.00	29.87	C
ATOM	3981	CG	TYR	B	284	26.868	33.973	24.108	1.00	29.73	C
ATOM	3982	CD1	TYR	B	284	25.850	33.094	23.742	1.00	29.75	C
ATOM	3983	CE1	TYR	B	284	25.184	32.327	24.695	1.00	29.98	C
ATOM	3984	CZ	TYR	B	284	25.535	32.443	26.032	1.00	29.92	C
ATOM	3985	OH	TYR	B	284	24.883	31.690	26.983	1.00	29.95	O
ATOM	3986	CE2	TYR	B	284	26.541	33.311	26.418	1.00	29.77	C
ATOM	3987	CD2	TYR	B	284	27.199	34.071	25.458	1.00	29.72	C
ATOM	3988	N	LEU	B	285	27.285	37.352	20.807	1.00	29.69	N
ATOM	3989	CA	LEU	B	285	27.907	38.272	19.856	1.00	29.64	C
ATOM	3990	C	LEU	B	285	26.898	39.279	19.302	1.00	29.82	C
ATOM	3991	O	LEU	B	285	25.762	38.920	18.971	1.00	29.58	O
ATOM	3992	CB	LEU	B	285	28.593	37.513	18.714	1.00	29.47	C
ATOM	3993	CG	LEU	B	285	29.794	36.606	19.007	1.00	28.85	C
ATOM	3994	CD1	LEU	B	285	30.244	35.920	17.730	1.00	28.51	C
ATOM	3995	CD2	LEU	B	285	30.950	37.368	19.639	1.00	28.37	C
ATOM	3996	N	VAL	B	286	27.323	40.539	19.209	1.00	29.96	N
ATOM	3997	CA	VAL	B	286	26.472	41.622	18.716	1.00	30.20	C
ATOM	3998	C	VAL	B	286	27.058	42.233	17.440	1.00	30.44	C
ATOM	3999	O	VAL	B	286	28.050	42.968	17.485	1.00	30.62	O
ATOM	4000	CB	VAL	B	286	26.249	42.726	19.793	1.00	30.23	C
ATOM	4001	CG1	VAL	B	286	25.298	43.807	19.284	1.00	30.11	C
ATOM	4002	CG2	VAL	B	286	25.725	42.125	21.095	1.00	30.10	C
ATOM	4003	N	ILE	B	287	26.442	41.912	16.306	1.00	30.62	N
ATOM	4004	CA	ILE	B	287	26.855	42.455	15.013	1.00	30.93	C
ATOM	4005	C	ILE	B	287	25.692	43.218	14.381	1.00	31.07	C
ATOM	4006	O	ILE	B	287	24.540	42.781	14.454	1.00	31.00	O
ATOM	4007	CB	ILE	B	287	27.372	41.330	14.065	1.00	31.02	C
ATOM	4008	CG1	ILE	B	287	28.484	40.514	14.734	1.00	30.90	C
ATOM	4009	CD1	ILE	B	287	28.421	39.033	14.443	1.00	31.01	C
ATOM	4010	CG2	ILE	B	287	27.888	41.917	12.749	1.00	31.03	C
ATOM	4011	N	GLN	B	288	26.004	44.363	13.775	1.00	31.11	N
ATOM	4012	CA	GLN	B	288	25.006	45.206	13.117	1.00	30.91	C
ATOM	4013	C	GLN	B	288	24.328	44.472	11.961	1.00	30.82	C
ATOM	4014	O	GLN	B	288	23.103	44.524	11.817	1.00	30.96	O
ATOM	4015	CB	GLN	B	288	25.647	46.504	12.620	1.00	31.04	C

FIG. 4000

ATOM	4016	N	GLY	B	289	25.130	43.781	11.151	1.00	30.32	N
ATOM	4017	CA	GLY	B	289	24.620	42.982	10.050	1.00	29.97	C
ATOM	4018	C	GLY	B	289	24.025	41.663	10.514	1.00	29.71	C
ATOM	4019	O	GLY	B	289	24.322	40.603	9.951	1.00	29.80	O
ATOM	4020	N	GLU	B	290	23.179	41.739	11.540	1.00	29.17	N
ATOM	4021	CA	GLU	B	290	22.544	40.570	12.140	1.00	28.68	C
ATOM	4022	C	GLU	B	290	21.102	40.887	12.531	1.00	28.79	C
ATOM	4023	O	GLU	B	290	20.511	41.853	12.040	1.00	28.90	O
ATOM	4024	CB	GLU	B	290	23.334	40.116	13.372	1.00	28.31	C
ATOM	4025	CG	GLU	B	290	23.386	38.610	13.587	1.00	27.52	C
ATOM	4026	CD	GLU	B	290	24.270	37.885	12.588	1.00	27.08	C
ATOM	4027	OE1	GLU	B	290	25.146	38.521	11.963	1.00	27.14	O
ATOM	4028	OE2	GLU	B	290	24.084	36.665	12.425	1.00	27.57	O
TER	4029		GLU	B	290						
HETATM	4030	O1A	ANP	W	1	54.152	28.767	4.525	1.00	14.19	O
HETATM	4031	PA	ANP	W	1	52.665	29.162	4.909	1.00	14.23	P
HETATM	4032	O2A	ANP	W	1	52.045	28.041	5.844	1.00	14.69	O
HETATM	4033	O3A	ANP	W	1	52.635	30.626	5.591	1.00	14.46	O
HETATM	4034	PB	ANP	W	1	51.592	31.138	6.713	1.00	14.01	P
HETATM	4035	O1B	ANP	W	1	50.427	30.096	6.982	1.00	14.07	O
HETATM	4036	O2B	ANP	W	1	50.966	32.525	6.257	1.00	14.38	O
HETATM	4037	N3B	ANP	W	1	52.464	31.438	8.189	1.00	13.82	N
HETATM	4038	PG	ANP	W	1	53.106	30.114	9.118	1.00	12.66	P
HETATM	4039	O3G	ANP	W	1	52.248	28.804	8.839	1.00	13.65	O
HETATM	4040	O2G	ANP	W	1	53.031	30.526	10.647	1.00	13.04	O
HETATM	4041	O1G	ANP	W	1	54.615	29.839	8.717	1.00	12.98	O
HETATM	4042	O5*	ANP	W	1	51.775	29.328	3.577	1.00	15.00	O
HETATM	4043	C5*	ANP	W	1	51.932	30.426	2.677	1.00	15.96	C
HETATM	4044	C4*	ANP	W	1	50.621	30.671	1.929	1.00	16.58	C
HETATM	4045	O4*	ANP	W	1	50.160	29.456	1.323	1.00	16.78	O
HETATM	4046	C1*	ANP	W	1	48.800	29.196	1.685	1.00	17.15	C
HETATM	4047	C2*	ANP	W	1	48.549	29.985	2.965	1.00	17.11	C
HETATM	4048	O2*	ANP	W	1	47.198	30.414	3.085	1.00	16.97	O
HETATM	4049	C3*	ANP	W	1	49.514	31.155	2.857	1.00	16.74	C
HETATM	4050	O3*	ANP	W	1	48.868	32.271	2.273	1.00	16.57	O
HETATM	4051	N9	ANP	W	1	48.587	27.743	1.894	1.00	17.64	N
HETATM	4052	C8	ANP	W	1	49.262	26.916	2.735	1.00	17.81	C
HETATM	4053	N7	ANP	W	1	48.810	25.620	2.687	1.00	18.02	N
HETATM	4054	C5	ANP	W	1	47.812	25.599	1.786	1.00	18.38	C
HETATM	4055	C6	ANP	W	1	46.850	24.636	1.180	1.00	18.92	C
HETATM	4056	N6	ANP	W	1	46.865	23.332	1.554	1.00	19.07	N
HETATM	4057	C4	ANP	W	1	47.693	26.965	1.301	1.00	17.99	C
HETATM	4058	N3	ANP	W	1	46.710	27.322	0.309	1.00	18.03	N
HETATM	4059	C2	ANP	W	1	45.899	26.361	-0.165	1.00	18.44	C
HETATM	4060	N1	ANP	W	1	45.961	25.077	0.249	1.00	18.87	N
HETATM	4061	O1A	ANP	W	2	19.403	6.203	15.674	1.00	15.26	O
HETATM	4062	PA	ANP	W	2	18.049	5.565	16.209	1.00	15.32	P
HETATM	4063	O2A	ANP	W	2	18.326	4.676	17.493	1.00	15.23	O
HETATM	4064	O3A	ANP	W	2	16.971	6.730	16.499	1.00	15.88	O
HETATM	4065	PB	ANP	W	2	15.646	6.537	17.396	1.00	16.01	P
HETATM	4066	O1B	ANP	W	2	15.547	5.062	17.973	1.00	16.94	O
HETATM	4067	O2B	ANP	W	2	14.364	6.863	16.519	1.00	16.42	O
HETATM	4068	N3B	ANP	W	2	15.695	7.656	18.730	1.00	16.44	N
HETATM	4069	PG	ANP	W	2	16.958	7.503	19.920	1.00	16.23	P
HETATM	4070	O3G	ANP	W	2	17.525	6.020	19.897	1.00	16.82	O
HETATM	4071	O2G	ANP	W	2	16.321	7.826	21.340	1.00	16.56	O
HETATM	4072	O1G	ANP	W	2	18.143	8.515	19.599	1.00	16.37	O
HETATM	4073	O5*	ANP	W	2	17.363	4.666	15.069	1.00	15.30	O
HETATM	4074	C5*	ANP	W	2	16.957	5.226	13.824	1.00	15.80	C
HETATM	4075	C4*	ANP	W	2	16.040	4.244	13.108	1.00	16.07	C

FIG. 4PPP

HETATM	4076	O4*	ANP	W	2	16.717	2.997	12.922	1.00	16.33	O
HETATM	4077	C1*	ANP	W	2	15.922	1.921	13.431	1.00	16.41	C
HETATM	4078	C2*	ANP	W	2	14.972	2.540	14.445	1.00	16.48	C
HETATM	4079	O2*	ANP	W	2	13.732	1.854	14.511	1.00	16.84	O
HETATM	4080	C3*	ANP	W	2	14.786	3.951	13.916	1.00	16.27	C
HETATM	4081	O3*	ANP	W	2	13.667	4.004	13.048	1.00	16.31	O
HETATM	4082	N9	ANP	W	2	16.810	0.874	13.995	1.00	16.25	N
HETATM	4083	C8	ANP	W	2	17.822	1.016	14.888	1.00	16.35	C
HETATM	4084	N7	ANP	W	2	18.453	-0.174	15.174	1.00	16.50	N
HETATM	4085	C5	ANP	W	2	17.839	-1.115	14.436	1.00	16.63	C
HETATM	4086	C6	ANP	W	2	17.907	-2.578	14.172	1.00	16.77	C
HETATM	4087	N6	ANP	W	2	18.829	-3.340	14.806	1.00	17.13	N
HETATM	4088	C4	ANP	W	2	16.800	-0.416	13.694	1.00	16.65	C
HETATM	4089	N3	ANP	W	2	15.924	-1.117	12.781	1.00	16.77	N
HETATM	4090	C2	ANP	W	2	16.087	-2.445	12.630	1.00	16.80	C
HETATM	4091	N1	ANP	W	2	17.035	-3.143	13.293	1.00	16.71	N
HETATM	4092	MG	MG	W	3	50.504	28.210	7.268	1.00	25.98	MG
HETATM	4093	MG	MG	W	4	16.970	3.922	18.643	1.00	7.82	MG
HETATM	4094	O	HOH	W	5	4.290	11.548	33.626	1.00	6.42	O
HETATM	4095	O	HOH	W	6	18.999	-0.021	34.227	1.00	16.10	O
HETATM	4096	O	HOH	W	7	50.184	27.299	18.765	1.00	3.07	O
HETATM	4097	O	HOH	W	8	16.094	5.310	30.267	1.00	2.00	O
HETATM	4098	O	HOH	W	9	21.140	-9.281	11.284	1.00	13.72	O
HETATM	4099	O	HOH	W	10	12.663	-11.281	13.567	1.00	30.98	O
HETATM	4100	O	HOH	W	11	42.871	16.268	5.531	1.00	3.37	O
HETATM	4101	O	HOH	W	12	5.321	8.123	21.448	1.00	13.81	O
HETATM	4102	O	HOH	W	13	12.492	-7.983	13.744	1.00	17.68	O
HETATM	4103	O	HOH	W	14	-10.354	-6.119	27.605	1.00	32.05	O
HETATM	4104	O	HOH	W	15	44.859	36.969	30.762	1.00	6.38	O
HETATM	4105	O	HOH	W	16	-10.333	1.111	37.170	1.00	40.24	O
HETATM	4106	O	HOH	W	17	15.243	-4.807	39.557	1.00	5.14	O
HETATM	4107	O	HOH	W	18	28.726	-6.171	34.736	1.00	11.86	O
HETATM	4108	O	HOH	W	19	30.980	44.276	27.536	1.00	5.15	O
HETATM	4109	O	HOH	W	20	44.582	32.439	1.893	1.00	13.93	O
HETATM	4110	O	HOH	W	21	40.070	32.836	2.334	1.00	2.00	O
HETATM	4111	O	HOH	W	22	41.231	18.825	25.667	1.00	10.34	O
HETATM	4112	O	HOH	W	23	52.638	29.706	18.724	1.00	44.04	O
HETATM	4113	O	HOH	W	24	34.149	-9.405	10.655	1.00	28.63	O
HETATM	4114	O	HOH	W	25	-5.908	11.084	33.794	1.00	20.58	O
HETATM	4115	O	HOH	W	26	21.006	20.012	31.996	1.00	24.85	O
HETATM	4116	O	HOH	W	27	52.463	34.089	4.899	1.00	20.21	O
HETATM	4117	O	HOH	W	28	11.154	-10.162	43.370	1.00	21.83	O
HETATM	4118	O	HOH	W	29	14.409	8.134	26.716	1.00	26.10	O
HETATM	4119	O	HOH	W	30	48.209	9.659	1.939	1.00	33.23	O
HETATM	4120	O	HOH	W	31	6.904	-1.951	13.417	1.00	25.25	O
HETATM	4121	O	HOH	W	32	15.899	-10.068	34.616	1.00	4.64	O
HETATM	4122	O	HOH	W	33	47.779	20.359	21.519	1.00	5.98	O
HETATM	4123	O	HOH	W	34	3.700	10.587	40.253	1.00	7.89	O
HETATM	4124	O	HOH	W	35	-11.781	-7.560	24.631	1.00	26.81	O
HETATM	4125	O	HOH	W	36	37.071	47.600	22.181	1.00	31.63	O
HETATM	4126	O	HOH	W	37	53.336	25.403	28.783	1.00	15.60	O
HETATM	4127	O	HOH	W	38	34.560	-9.596	23.541	1.00	32.06	O
HETATM	4128	O	HOH	W	39	44.712	45.040	28.718	1.00	29.39	O
HETATM	4129	O	HOH	W	40	32.687	0.085	5.244	1.00	34.81	O
HETATM	4130	O	HOH	W	41	29.485	-10.969	17.606	1.00	24.11	O
HETATM	4131	O	HOH	W	42	55.740	27.886	6.683	1.00	14.12	O
HETATM	4132	O	HOH	W	43	-8.611	-7.982	24.987	1.00	15.68	O
HETATM	4133	O	HOH	W	44	32.322	-9.118	24.990	1.00	18.15	O
HETATM	4134	O	HOH	W	45	0.125	16.011	31.233	1.00	17.73	O
HETATM	4135	O	HOH	W	46	20.590	7.834	17.742	1.00	25.02	O

FIG. 4QQQ

HETATM	4136	O	HOH	W	47	49.359	25.038	5.554	1.00	13.72	O
HETATM	4137	O	HOH	W	48	34.347	3.367	11.863	1.00	13.64	O
HETATM	4138	O	HOH	W	49	-1.101	23.372	37.260	1.00	25.81	O
HETATM	4139	O	HOH	W	50	45.799	45.166	19.287	1.00	25.43	O
HETATM	4140	O	HOH	W	51	25.282	-14.857	30.672	1.00	22.55	O
HETATM	4141	O	HOH	W	52	52.355	26.732	21.087	1.00	23.92	O
HETATM	4142	O	HOH	W	53	43.158	15.435	26.674	1.00	32.37	O
HETATM	4143	O	HOH	W	54	34.583	43.175	16.714	1.00	25.93	O
HETATM	4144	O	HOH	W	55	38.962	24.995	0.100	1.00	25.43	O
HETATM	4145	O	HOH	W	56	42.851	14.558	9.528	1.00	24.68	O
HETATM	4146	O	HOH	W	57	3.405	21.917	22.000	1.00	20.97	O
HETATM	4147	O	HOH	W	58	23.078	-0.069	19.421	1.00	19.58	O
HETATM	4148	O	HOH	W	59	14.326	-4.757	6.647	1.00	19.83	O
HETATM	4149	O	HOH	W	60	28.614	27.321	1.239	1.00	27.54	O
HETATM	4150	O	HOH	W	61	48.149	31.411	5.943	1.00	14.29	O
HETATM	4151	O	HOH	W	62	-0.670	21.642	39.051	1.00	22.00	O
HETATM	4152	O	HOH	W	63	24.223	-17.815	26.796	1.00	23.19	O
HETATM	4153	O	HOH	W	64	43.922	21.892	26.412	1.00	27.31	O
HETATM	4154	O	HOH	W	65	15.076	10.275	18.291	1.00	26.76	O

END

**FIG. 4RRR**

CRYST1 34.686 85.703 180.248 90.00 90.00 90.00 P 21 21 21 4

	Atom	Type	Residue	#	X	Y	Z	OCC	B	Atom
ATOM	1	N	LEU A	9	8.096	0.008	38.058	1.00	35.38	N
ATOM	2	CA	LEU A	9	8.705	-0.126	36.704	1.00	35.26	C
ATOM	3	C	LEU A	9	10.203	0.196	36.697	1.00	34.71	C
ATOM	4	O	LEU A	9	10.937	-0.304	35.847	1.00	35.05	O
ATOM	5	CB	LEU A	9	7.966	0.768	35.699	1.00	35.55	C
ATOM	6	CG	LEU A	9	6.983	0.120	34.717	1.00	36.39	C
ATOM	7	CD1	LEU A	9	7.718	-0.584	33.591	1.00	37.01	C
ATOM	8	CD2	LEU A	9	6.029	-0.855	35.420	1.00	37.57	C
ATOM	9	N	LEU A	10	10.642	1.023	37.646	1.00	33.74	N
ATOM	10	CA	LEU A	10	12.030	1.475	37.720	1.00	32.92	C
ATOM	11	C	LEU A	10	12.862	0.611	38.659	1.00	33.05	C
ATOM	12	O	LEU A	10	12.483	0.374	39.808	1.00	32.92	O
ATOM	13	CB	LEU A	10	12.091	2.947	38.156	1.00	32.54	C
ATOM	14	CG	LEU A	10	13.449	3.607	38.424	1.00	32.04	C
ATOM	15	CD1	LEU A	10	14.153	3.989	37.139	1.00	31.90	C
ATOM	16	CD2	LEU A	10	13.304	4.825	39.331	1.00	31.86	C
ATOM	17	N	ARG A	11	14.000	0.143	38.166	1.00	32.98	N
ATOM	18	CA	ARG A	11	14.927	-0.595	39.007	1.00	33.21	C
ATOM	19	C	ARG A	11	16.034	0.323	39.486	1.00	32.79	C
ATOM	20	O	ARG A	11	16.718	0.962	38.687	1.00	32.84	O
ATOM	21	CB	ARG A	11	15.513	-1.791	38.259	1.00	33.61	C
ATOM	22	CG	ARG A	11	14.878	-3.099	38.639	1.00	35.02	C
ATOM	23	CD	ARG A	11	14.193	-3.810	37.493	1.00	37.55	C
ATOM	24	NE	ARG A	11	15.005	-4.896	36.942	1.00	39.91	N
ATOM	25	CZ	ARG A	11	15.247	-6.054	37.559	1.00	41.36	C
ATOM	26	NH1	ARG A	11	15.994	-6.977	36.964	1.00	42.17	N
ATOM	27	NH2	ARG A	11	14.756	-6.296	38.769	1.00	41.80	N
ATOM	28	N	ILE A	12	16.199	0.396	40.798	1.00	32.17	N
ATOM	29	CA	ILE A	12	17.286	1.170	41.367	1.00	31.92	C
ATOM	30	C	ILE A	12	18.427	0.204	41.656	1.00	31.86	C
ATOM	31	O	ILE A	12	18.321	-0.656	42.531	1.00	31.99	O
ATOM	32	CB	ILE A	12	16.823	1.936	42.625	1.00	32.09	C
ATOM	33	CG1	ILE A	12	15.554	2.741	42.311	1.00	30.95	C
ATOM	34	CD1	ILE A	12	14.744	3.138	43.528	1.00	32.11	C
ATOM	35	CG2	ILE A	12	17.961	2.838	43.161	1.00	31.67	C
ATOM	36	N	LEU A	13	19.508	0.345	40.894	1.00	31.41	N
ATOM	37	CA	LEU A	13	20.584	-0.633	40.905	1.00	31.04	C
ATOM	38	C	LEU A	13	21.776	-0.217	41.742	1.00	31.06	C
ATOM	39	O	LEU A	13	22.015	0.969	41.965	1.00	30.83	O
ATOM	40	CB	LEU A	13	21.037	-0.968	39.476	1.00	31.01	C
ATOM	41	CG	LEU A	13	19.977	-1.377	38.448	1.00	30.07	C
ATOM	42	CD1	LEU A	13	20.614	-1.480	37.085	1.00	29.65	C
ATOM	43	CD2	LEU A	13	19.312	-2.689	38.828	1.00	30.21	C
ATOM	44	N	LYS A	14	22.504	-1.231	42.204	1.00	31.15	N
ATOM	45	CA	LYS A	14	23.772	-1.084	42.906	1.00	31.49	C
ATOM	46	C	LYS A	14	24.890	-1.119	41.873	1.00	31.65	C
ATOM	47	O	LYS A	14	24.764	-1.801	40.849	1.00	31.42	O
ATOM	48	CB	LYS A	14	23.935	-2.272	43.852	1.00	31.82	C
ATOM	49	CG	LYS A	14	24.780	-2.033	45.069	1.00	32.02	C
ATOM	50	CD	LYS A	14	24.326	-2.941	46.205	1.00	33.01	C
ATOM	51	CE	LYS A	14	24.637	-4.406	45.932	1.00	32.29	C
ATOM	52	NZ	LYS A	14	24.743	-5.168	47.198	1.00	33.27	N
ATOM	53	N	GLU A	15	25.989	-0.418	42.146	1.00	31.81	N
ATOM	54	CA	GLU A	15	27.120	-0.359	41.210	1.00	32.48	C

FIG. 5A

ATOM	55	C	GLU	A	15	27.806	-1.708	40.932	1.00	32.41	C
ATOM	56	O	GLU	A	15	28.520	-1.843	39.930	1.00	32.25	O
ATOM	57	CB	GLU	A	15	28.146	0.697	41.647	1.00	32.94	C
ATOM	58	CG	GLU	A	15	29.148	0.224	42.692	1.00	34.55	C
ATOM	59	CD	GLU	A	15	29.762	1.362	43.481	1.00	36.00	C
ATOM	60	OE1	GLU	A	15	29.775	2.496	42.967	1.00	37.36	O
ATOM	61	OE2	GLU	A	15	30.241	1.124	44.616	1.00	36.70	O
ATOM	62	N	THR	A	16	27.579	-2.695	41.803	1.00	32.34	N
ATOM	63	CA	THR	A	16	28.221	-4.011	41.675	1.00	32.01	C
ATOM	64	C	THR	A	16	27.426	-4.969	40.801	1.00	32.45	C
ATOM	65	O	THR	A	16	27.900	-6.066	40.481	1.00	32.83	O
ATOM	66	CB	THR	A	16	28.429	-4.668	43.052	1.00	32.11	C
ATOM	67	OG1	THR	A	16	27.210	-4.601	43.808	1.00	30.97	O
ATOM	68	CG2	THR	A	16	29.442	-3.896	43.879	1.00	31.66	C
ATOM	69	N	GLU	A	17	26.213	-4.562	40.434	1.00	32.29	N
ATOM	70	CA	GLU	A	17	25.342	-5.371	39.585	1.00	32.18	C
ATOM	71	C	GLU	A	17	25.581	-5.121	38.091	1.00	31.51	C
ATOM	72	O	GLU	A	17	25.015	-5.815	37.242	1.00	30.95	O
ATOM	73	CB	GLU	A	17	23.875	-5.100	39.915	1.00	32.72	C
ATOM	74	CG	GLU	A	17	23.516	-5.222	41.384	1.00	34.07	C
ATOM	75	CD	GLU	A	17	22.019	-5.154	41.605	1.00	36.41	C
ATOM	76	OE1	GLU	A	17	21.487	-4.029	41.762	1.00	37.08	O
ATOM	77	OE2	GLU	A	17	21.374	-6.226	41.610	1.00	36.87	O
ATOM	78	N	PHE	A	18	26.402	-4.121	37.774	1.00	30.88	N
ATOM	79	CA	PHE	A	18	26.700	-3.792	36.382	1.00	30.61	C
ATOM	80	C	PHE	A	18	28.151	-3.385	36.194	1.00	30.75	C
ATOM	81	O	PHE	A	18	28.791	-2.904	37.121	1.00	31.58	O
ATOM	82	CB	PHE	A	18	25.725	-2.733	35.816	1.00	29.96	C
ATOM	83	CG	PHE	A	18	25.812	-1.390	36.493	1.00	28.54	C
ATOM	84	CD1	PHE	A	18	26.686	-0.412	36.022	1.00	27.16	C
ATOM	85	CE1	PHE	A	18	26.775	0.832	36.646	1.00	27.02	C
ATOM	86	CZ	PHE	A	18	25.975	1.113	37.750	1.00	27.13	C
ATOM	87	CE2	PHE	A	18	25.090	0.140	38.228	1.00	27.91	C
ATOM	88	CD2	PHE	A	18	25.010	-1.102	37.597	1.00	27.48	C
ATOM	89	N	LYS	A	19	28.665	-3.584	34.988	1.00	31.19	N
ATOM	90	CA	LYS	A	19	30.030	-3.194	34.661	1.00	31.21	C
ATOM	91	C	LYS	A	19	30.057	-2.449	33.335	1.00	31.16	C
ATOM	92	O	LYS	A	19	29.541	-2.943	32.330	1.00	30.67	O
ATOM	93	CB	LYS	A	19	30.930	-4.430	34.576	1.00	31.45	C
ATOM	94	CG	LYS	A	19	31.761	-4.681	35.822	1.00	32.26	C
ATOM	95	N	LYS	A	20	30.654	-1.260	33.341	1.00	31.15	N
ATOM	96	CA	LYS	A	20	30.934	-0.546	32.105	1.00	31.40	C
ATOM	97	C	LYS	A	20	32.021	-1.321	31.374	1.00	31.40	C
ATOM	98	O	LYS	A	20	33.053	-1.639	31.956	1.00	31.52	O
ATOM	99	CB	LYS	A	20	31.399	0.889	32.376	1.00	31.51	C
ATOM	100	CG	LYS	A	20	30.380	1.782	33.069	1.00	31.94	C
ATOM	101	CD	LYS	A	20	30.794	3.245	33.003	1.00	33.29	C
ATOM	102	CE	LYS	A	20	31.526	3.728	34.258	1.00	33.37	C
ATOM	103	NZ	LYS	A	20	30.997	3.136	35.524	1.00	34.90	N
ATOM	104	N	ILE	A	21	31.783	-1.635	30.105	1.00	31.30	N
ATOM	105	CA	ILE	A	21	32.736	-2.418	29.325	1.00	31.02	C
ATOM	106	C	ILE	A	21	33.404	-1.615	28.202	1.00	30.87	C
ATOM	107	O	ILE	A	21	34.594	-1.777	27.950	1.00	31.27	O
ATOM	108	CB	ILE	A	21	32.067	-3.740	28.829	1.00	31.23	C
ATOM	109	CG1	ILE	A	21	32.623	-4.940	29.605	1.00	30.99	C
ATOM	110	CD1	ILE	A	21	31.921	-5.212	30.914	1.00	30.77	C
ATOM	111	CG2	ILE	A	21	32.234	-3.966	27.325	1.00	31.85	C
ATOM	112	N	LYS	A	22	32.652	-0.737	27.544	1.00	30.35	N
ATOM	113	CA	LYS	A	22	33.167	-0.045	26.368	1.00	29.67	C
ATOM	114	C	LYS	A	22	32.485	1.303	26.166	1.00	28.92	C

FIG. 5B



ATOM	115	O	LYS	A	22	31.291	1.447	26.430	1.00	28.97	O
ATOM	116	CB	LYS	A	22	32.994	-0.944	25.131	1.00	29.91	C
ATOM	117	CG	LYS	A	22	33.463	-0.353	23.807	1.00	31.31	C
ATOM	118	CD	LYS	A	22	32.584	-0.846	22.663	1.00	33.69	C
ATOM	119	CE	LYS	A	22	32.824	-0.061	21.384	1.00	34.84	C
ATOM	120	NZ	LYS	A	22	33.873	-0.701	20.548	1.00	35.55	N
ATOM	121	N	VAL	A	23	33.247	2.291	25.702	1.00	27.85	N
ATOM	122	CA	VAL	A	23	32.673	3.572	25.319	1.00	26.80	C
ATOM	123	C	VAL	A	23	31.989	3.441	23.955	1.00	26.47	C
ATOM	124	O	VAL	A	23	32.578	2.927	23.007	1.00	26.06	O
ATOM	125	CB	VAL	A	23	33.731	4.714	25.304	1.00	27.14	C
ATOM	126	CG1	VAL	A	23	33.159	5.975	24.668	1.00	25.33	C
ATOM	127	CG2	VAL	A	23	34.220	5.013	26.709	1.00	25.82	C
ATOM	128	N	LEU	A	24	30.736	3.889	23.882	1.00	26.11	N
ATOM	129	CA	LEU	A	24	29.947	3.842	22.655	1.00	25.98	C
ATOM	130	C	LEU	A	24	29.745	5.224	22.047	1.00	26.08	C
ATOM	131	O	LEU	A	24	29.515	5.356	20.841	1.00	26.32	O
ATOM	132	CB	LEU	A	24	28.572	3.243	22.929	1.00	26.10	C
ATOM	133	CG	LEU	A	24	28.399	1.794	23.364	1.00	26.00	C
ATOM	134	CD1	LEU	A	24	26.914	1.572	23.585	1.00	25.49	C
ATOM	135	CD2	LEU	A	24	28.954	0.810	22.341	1.00	25.35	C
ATOM	136	N	GLY	A	25	29.809	6.249	22.888	1.00	25.98	N
ATOM	137	CA	GLY	A	25	29.611	7.607	22.440	1.00	26.07	C
ATOM	138	C	GLY	A	25	29.361	8.580	23.571	1.00	26.33	C
ATOM	139	O	GLY	A	25	29.640	8.284	24.732	1.00	26.03	O
ATOM	140	N	SER	A	26	28.829	9.746	23.214	1.00	26.48	N
ATOM	141	CA	SER	A	26	28.651	10.849	24.150	1.00	27.44	C
ATOM	142	C	SER	A	26	27.703	11.912	23.601	1.00	27.82	C
ATOM	143	O	SER	A	26	27.468	11.996	22.393	1.00	27.97	O
ATOM	144	CB	SER	A	26	30.002	11.488	24.477	1.00	27.22	C
ATOM	145	OG	SER	A	26	30.508	12.178	23.346	1.00	28.14	O
ATOM	146	N	GLY	A	27	27.160	12.721	24.505	1.00	28.49	N
ATOM	147	CA	GLY	A	27	26.332	13.845	24.129	1.00	28.72	C
ATOM	148	C	GLY	A	27	26.493	14.972	25.122	1.00	29.64	C
ATOM	149	O	GLY	A	27	27.458	15.007	25.902	1.00	29.14	O
ATOM	150	N	ALA	A	28	25.531	15.893	25.091	1.00	30.01	N
ATOM	151	CA	ALA	A	28	25.513	17.052	25.970	1.00	30.43	C
ATOM	152	C	ALA	A	28	25.262	16.704	27.442	1.00	30.90	C
ATOM	153	O	ALA	A	28	25.416	17.561	28.307	1.00	31.78	O
ATOM	154	CB	ALA	A	28	24.475	18.063	25.477	1.00	30.69	C
ATOM	155	N	PHE	A	29	24.888	15.458	27.729	1.00	30.85	N
ATOM	156	CA	PHE	A	29	24.550	15.066	29.097	1.00	31.31	C
ATOM	157	C	PHE	A	29	25.490	14.028	29.714	1.00	30.84	C
ATOM	158	O	PHE	A	29	25.353	13.681	30.887	1.00	30.79	O
ATOM	159	CB	PHE	A	29	23.087	14.616	29.184	1.00	31.85	C
ATOM	160	CG	PHE	A	29	22.111	15.610	28.605	1.00	33.49	C
ATOM	161	CD1	PHE	A	29	22.080	16.928	29.063	1.00	34.55	C
ATOM	162	CE1	PHE	A	29	21.182	17.851	28.532	1.00	34.83	C
ATOM	163	CZ	PHE	A	29	20.307	17.462	27.528	1.00	34.78	C
ATOM	164	CE2	PHE	A	29	20.325	16.147	27.062	1.00	35.55	C
ATOM	165	CD2	PHE	A	29	21.230	15.231	27.598	1.00	34.07	C
ATOM	166	N	GLY	A	30	26.444	13.540	28.930	1.00	30.40	N
ATOM	167	CA	GLY	A	30	27.493	12.693	29.468	1.00	29.90	C
ATOM	168	C	GLY	A	30	28.079	11.704	28.483	1.00	29.36	C
ATOM	169	O	GLY	A	30	28.136	11.957	27.278	1.00	29.36	O
ATOM	170	N	THR	A	31	28.511	10.566	29.011	1.00	28.32	N
ATOM	171	CA	THR	A	31	29.150	9.534	28.213	1.00	27.45	C
ATOM	172	C	THR	A	31	28.284	8.286	28.200	1.00	27.34	C
ATOM	173	O	THR	A	31	27.704	7.911	29.231	1.00	27.24	O
ATOM	174	CB	THR	A	31	30.542	9.214	28.788	1.00	27.08	C

FIG. 5C

ATOM	175	OG1	THR	A	31	31.321	10.418	28.841	1.00	26.63	O
ATOM	176	CG2	THR	A	31	31.329	8.308	27.848	1.00	25.44	C
ATOM	177	N	VAL	A	32	28.206	7.651	27.034	1.00	26.41	N
ATOM	178	CA	VAL	A	32	27.445	6.419	26.881	1.00	26.25	C
ATOM	179	C	VAL	A	32	28.392	5.219	26.785	1.00	26.12	C
ATOM	180	O	VAL	A	32	29.306	5.188	25.954	1.00	25.73	O
ATOM	181	CB	VAL	A	32	26.480	6.464	25.652	1.00	26.51	C
ATOM	182	CG1	VAL	A	32	25.591	5.231	25.621	1.00	26.16	C
ATOM	183	CG2	VAL	A	32	25.621	7.738	25.659	1.00	26.08	C
ATOM	184	N	TYR	A	33	28.152	4.234	27.644	1.00	25.90	N
ATOM	185	CA	TYR	A	33	28.914	2.993	27.643	1.00	25.79	C
ATOM	186	C	TYR	A	33	28.051	1.802	27.277	1.00	25.73	C
ATOM	187	O	TYR	A	33	26.841	1.804	27.488	1.00	25.45	O
ATOM	188	CB	TYR	A	33	29.505	2.729	29.024	1.00	25.52	C
ATOM	189	CG	TYR	A	33	30.458	3.780	29.518	1.00	25.63	C
ATOM	190	CD1	TYR	A	33	29.991	4.976	30.056	1.00	26.29	C
ATOM	191	CE1	TYR	A	33	30.872	5.943	30.525	1.00	26.43	C
ATOM	192	CZ	TYR	A	33	32.230	5.703	30.455	1.00	26.84	C
ATOM	193	OH	TYR	A	33	33.113	6.644	30.912	1.00	28.91	O
ATOM	194	CE2	TYR	A	33	32.714	4.524	29.931	1.00	26.56	C
ATOM	195	CD2	TYR	A	33	31.833	3.570	29.470	1.00	26.17	C
ATOM	196	N	LYS	A	34	28.690	0.780	26.724	1.00	26.11	N
ATOM	197	CA	LYS	A	34	28.119	-0.553	26.713	1.00	26.19	C
ATOM	198	C	LYS	A	34	28.528	-1.189	28.034	1.00	26.36	C
ATOM	199	O	LYS	A	34	29.629	-0.947	28.539	1.00	26.37	O
ATOM	200	CB	LYS	A	34	28.647	-1.374	25.536	1.00	26.34	C
ATOM	201	CG	LYS	A	34	28.254	-2.854	25.578	1.00	26.67	C
ATOM	202	CD	LYS	A	34	28.699	-3.591	24.324	1.00	28.28	C
ATOM	203	CE	LYS	A	34	30.209	-3.644	24.207	1.00	28.80	C
ATOM	204	NZ	LYS	A	34	30.651	-4.626	23.185	1.00	29.64	N
ATOM	205	N	GLY	A	35	27.633	-1.982	28.601	1.00	26.48	N
ATOM	206	CA	GLY	A	35	27.916	-2.655	29.846	1.00	27.05	C
ATOM	207	C	GLY	A	35	27.283	-4.021	29.931	1.00	27.50	C
ATOM	208	O	GLY	A	35	26.579	-4.461	29.016	1.00	27.33	O
ATOM	209	N	LEU	A	36	27.569	-4.704	31.031	1.00	28.07	N
ATOM	210	CA	LEU	A	36	26.910	-5.965	31.346	1.00	28.83	C
ATOM	211	C	LEU	A	36	26.159	-5.815	32.651	1.00	29.31	C
ATOM	212	O	LEU	A	36	26.651	-5.203	33.608	1.00	28.70	O
ATOM	213	CB	LEU	A	36	27.907	-7.122	31.413	1.00	28.61	C
ATOM	214	CG	LEU	A	36	28.522	-7.486	30.057	1.00	29.10	C
ATOM	215	CD1	LEU	A	36	29.704	-8.429	30.235	1.00	29.07	C
ATOM	216	CD2	LEU	A	36	27.481	-8.074	29.099	1.00	27.73	C
ATOM	217	N	TRP	A	37	24.953	-6.366	32.662	1.00	30.29	N
ATOM	218	CA	TRP	A	37	24.050	-6.257	33.794	1.00	31.66	C
ATOM	219	C	TRP	A	37	23.555	-7.649	34.178	1.00	32.41	C
ATOM	220	O	TRP	A	37	23.057	-8.398	33.337	1.00	32.28	O
ATOM	221	CB	TRP	A	37	22.885	-5.325	33.431	1.00	31.36	C
ATOM	222	CG	TRP	A	37	21.749	-5.309	34.400	1.00	31.84	C
ATOM	223	CD1	TRP	A	37	21.827	-5.288	35.765	1.00	31.66	C
ATOM	224	NE1	TRP	A	37	20.568	-5.278	36.312	1.00	31.87	N
ATOM	225	CE2	TRP	A	37	19.643	-5.284	35.303	1.00	32.18	C
ATOM	226	CD2	TRP	A	37	20.355	-5.302	34.080	1.00	32.48	C
ATOM	227	CE3	TRP	A	37	19.627	-5.315	32.881	1.00	32.93	C
ATOM	228	CZ3	TRP	A	37	18.234	-5.305	32.939	1.00	34.29	C
ATOM	229	CH2	TRP	A	37	17.558	-5.288	34.173	1.00	34.07	C
ATOM	230	CZ2	TRP	A	37	18.246	-5.275	35.363	1.00	33.37	C
ATOM	231	N	ILE	A	38	23.728	-7.998	35.446	1.00	33.59	N
ATOM	232	CA	ILE	A	38	23.151	-9.220	35.986	1.00	35.00	C
ATOM	233	C	ILE	A	38	21.966	-8.808	36.844	1.00	36.18	C
ATOM	234	O	ILE	A	38	22.149	-8.219	37.915	1.00	36.19	O

FIG. 5D

ATOM	235	CB	ILE	A	38	24.198	-10.037	36.802	1.00	35.17	C
ATOM	236	CG1	ILE	A	38	25.308	-10.562	35.888	1.00	34.19	C
ATOM	237	CD1	ILE	A	38	26.688	-10.346	36.435	1.00	33.99	C
ATOM	238	CG2	ILE	A	38	23.532	-11.213	37.543	1.00	35.42	C
ATOM	239	N	PRO	A	39	20.755	-9.090	36.362	1.00	37.54	N
ATOM	240	CA	PRO	A	39	19.532	-8.772	37.106	1.00	38.74	C
ATOM	241	C	PRO	A	39	19.432	-9.599	38.383	1.00	39.96	C
ATOM	242	O	PRO	A	39	20.073	-10.652	38.495	1.00	40.58	O
ATOM	243	CB	PRO	A	39	18.417	-9.156	36.130	1.00	38.70	C
ATOM	244	CG	PRO	A	39	19.070	-9.245	34.812	1.00	38.09	C
ATOM	245	CD	PRO	A	39	20.455	-9.737	35.073	1.00	37.80	C
ATOM	246	N	GLU	A	40	18.643	-9.114	39.335	1.00	41.45	N
ATOM	247	CA	GLU	A	40	18.572	-9.711	40.665	1.00	42.64	C
ATOM	248	C	GLU	A	40	17.938	-11.104	40.655	1.00	43.47	C
ATOM	249	O	GLU	A	40	16.830	-11.301	40.153	1.00	43.34	O
ATOM	250	CB	GLU	A	40	17.836	-8.777	41.630	1.00	42.63	C
ATOM	251	N	GLY	A	41	18.668	-12.065	41.211	1.00	44.81	N
ATOM	252	CA	GLY	A	41	18.222	-13.444	41.277	1.00	45.93	C
ATOM	253	C	GLY	A	41	18.849	-14.292	40.188	1.00	46.56	C
ATOM	254	O	GLY	A	41	19.423	-15.345	40.465	1.00	46.81	O
ATOM	255	N	GLU	A	42	18.742	-13.817	38.949	1.00	47.24	N
ATOM	256	CA	GLU	A	42	19.230	-14.539	37.776	1.00	47.50	C
ATOM	257	C	GLU	A	42	20.757	-14.586	37.728	1.00	47.53	C
ATOM	258	O	GLU	A	42	21.433	-13.986	38.567	1.00	48.02	O
ATOM	259	CB	GLU	A	42	18.664	-13.930	36.489	1.00	47.70	C
ATOM	260	CG	GLU	A	42	17.949	-12.598	36.672	1.00	48.46	C
ATOM	261	CD	GLU	A	42	16.805	-12.393	35.693	1.00	49.13	C
ATOM	262	OE1	GLU	A	42	15.745	-11.880	36.117	1.00	49.77	O
ATOM	263	OE2	GLU	A	42	16.960	-12.732	34.500	1.00	49.24	O
ATOM	264	N	LYS	A	43	21.293	-15.314	36.753	1.00	47.44	N
ATOM	265	CA	LYS	A	43	22.737	-15.466	36.612	1.00	46.89	C
ATOM	266	C	LYS	A	43	23.248	-14.807	35.336	1.00	46.48	C
ATOM	267	O	LYS	A	43	24.414	-14.406	35.262	1.00	46.92	O
ATOM	268	CB	LYS	A	43	23.122	-16.946	36.638	1.00	47.10	C
ATOM	269	N	VAL	A	44	22.368	-14.685	34.346	1.00	45.53	N
ATOM	270	CA	VAL	A	44	22.731	-14.147	33.037	1.00	44.72	C
ATOM	271	C	VAL	A	44	23.259	-12.716	33.085	1.00	43.92	C
ATOM	272	O	VAL	A	44	22.697	-11.853	33.775	1.00	44.20	O
ATOM	273	CB	VAL	A	44	21.554	-14.197	32.029	1.00	44.84	C
ATOM	274	CG1	VAL	A	44	22.026	-14.763	30.704	1.00	44.64	C
ATOM	275	CG2	VAL	A	44	20.376	-15.005	32.581	1.00	45.38	C
ATOM	276	N	LYS	A	45	24.346	-12.484	32.350	1.00	42.20	N
ATOM	277	CA	LYS	A	45	24.859	-11.144	32.113	1.00	40.90	C
ATOM	278	C	LYS	A	45	24.220	-10.570	30.847	1.00	39.86	C
ATOM	279	O	LYS	A	45	24.362	-11.136	29.758	1.00	39.98	O
ATOM	280	CB	LYS	A	45	26.384	-11.163	31.997	1.00	40.99	C
ATOM	281	N	ILE	A	46	23.514	-9.450	31.007	1.00	38.25	N
ATOM	282	CA	ILE	A	46	22.746	-8.819	29.928	1.00	36.38	C
ATOM	283	C	ILE	A	46	23.442	-7.555	29.394	1.00	34.87	C
ATOM	284	O	ILE	A	46	23.656	-6.607	30.151	1.00	35.08	O
ATOM	285	CB	ILE	A	46	21.309	-8.474	30.421	1.00	36.31	C
ATOM	286	CG1	ILE	A	46	20.488	-9.751	30.621	1.00	36.62	C
ATOM	287	CD1	ILE	A	46	19.140	-9.537	31.301	1.00	36.72	C
ATOM	288	CG2	ILE	A	46	20.603	-7.520	29.446	1.00	36.09	C
ATOM	289	N	PRO	A	47	23.794	-7.542	28.104	1.00	33.01	N
ATOM	290	CA	PRO	A	47	24.351	-6.338	27.475	1.00	31.20	C
ATOM	291	C	PRO	A	47	23.350	-5.179	27.476	1.00	29.44	C
ATOM	292	O	PRO	A	47	22.178	-5.343	27.103	1.00	29.35	O
ATOM	293	CB	PRO	A	47	24.688	-6.793	26.046	1.00	31.38	C
ATOM	294	CG	PRO	A	47	23.887	-8.026	25.818	1.00	32.45	C

FIG. 5E

ATOM	295	CD	PRO	A	47	23.714	-8.674	27.161	1.00	33.23	C
ATOM	296	N	VAL	A	48	23.823	-4.020	27.922	1.00	26.93	N
ATOM	297	CA	VAL	A	48	22.989	-2.832	28.098	1.00	24.82	C
ATOM	298	C	VAL	A	48	23.769	-1.576	27.731	1.00	24.03	C
ATOM	299	O	VAL	A	48	24.996	-1.607	27.605	1.00	22.88	O
ATOM	300	CB	VAL	A	48	22.509	-2.666	29.577	1.00	24.76	C
ATOM	301	CG1	VAL	A	48	21.516	-3.761	29.985	1.00	23.63	C
ATOM	302	CG2	VAL	A	48	23.700	-2.600	30.544	1.00	23.66	C
ATOM	303	N	ALA	A	49	23.049	-0.471	27.578	1.00	22.99	N
ATOM	304	CA	ALA	A	49	23.679	0.835	27.509	1.00	22.69	C
ATOM	305	C	ALA	A	49	23.653	1.498	28.883	1.00	22.56	C
ATOM	306	O	ALA	A	49	22.621	1.525	29.558	1.00	22.34	O
ATOM	307	CB	ALA	A	49	22.994	1.720	26.456	1.00	22.34	C
ATOM	308	N	ILE	A	50	24.804	2.019	29.290	1.00	23.08	N
ATOM	309	CA	ILE	A	50	24.934	2.780	30.530	1.00	23.05	C
ATOM	310	C	ILE	A	50	25.331	4.225	30.254	1.00	22.95	C
ATOM	311	O	ILE	A	50	26.410	4.497	29.737	1.00	22.99	O
ATOM	312	CB	ILE	A	50	25.944	2.122	31.499	1.00	22.68	C
ATOM	313	CG1	ILE	A	50	25.600	0.646	31.724	1.00	23.20	C
ATOM	314	CD1	ILE	A	50	26.767	-0.183	32.250	1.00	23.10	C
ATOM	315	CG2	ILE	A	50	25.983	2.883	32.828	1.00	22.78	C
ATOM	316	N	LYS	A	51	24.452	5.144	30.614	1.00	23.57	N
ATOM	317	CA	LYS	A	51	24.721	6.564	30.464	1.00	25.45	C
ATOM	318	C	LYS	A	51	25.241	7.140	31.790	1.00	26.16	C
ATOM	319	O	LYS	A	51	24.565	7.081	32.809	1.00	26.54	O
ATOM	320	CB	LYS	A	51	23.457	7.288	29.998	1.00	25.27	C
ATOM	321	CG	LYS	A	51	23.718	8.519	29.142	1.00	27.21	C
ATOM	322	N	GLU	A	52	26.462	7.659	31.769	1.00	27.10	N
ATOM	323	CA	GLU	A	52	27.046	8.307	32.932	1.00	28.25	C
ATOM	324	C	GLU	A	52	26.848	9.812	32.796	1.00	28.35	C
ATOM	325	O	GLU	A	52	27.412	10.439	31.900	1.00	28.29	O
ATOM	326	CB	GLU	A	52	28.538	7.966	33.051	1.00	28.46	C
ATOM	327	CG	GLU	A	52	28.883	7.152	34.284	1.00	30.20	C
ATOM	328	CD	GLU	A	52	30.303	7.358	34.796	1.00	31.24	C
ATOM	329	OE1	GLU	A	52	31.218	7.648	33.998	1.00	32.93	O
ATOM	330	OE2	GLU	A	52	30.513	7.203	36.012	1.00	31.33	O
ATOM	331	N	LEU	A	53	26.034	10.387	33.675	1.00	29.03	N
ATOM	332	CA	LEU	A	53	25.664	11.796	33.553	1.00	29.57	C
ATOM	333	C	LEU	A	53	26.732	12.715	34.106	1.00	30.34	C
ATOM	334	O	LEU	A	53	27.415	12.382	35.076	1.00	31.05	O
ATOM	335	CB	LEU	A	53	24.328	12.083	34.245	1.00	29.20	C
ATOM	336	CG	LEU	A	53	23.069	11.285	33.895	1.00	28.26	C
ATOM	337	CD1	LEU	A	53	21.861	11.971	34.515	1.00	26.83	C
ATOM	338	CD2	LEU	A	53	22.879	11.103	32.389	1.00	28.29	C
ATOM	339	N	ARG	A	54	26.870	13.875	33.474	1.00	31.28	N
ATOM	340	CA	ARG	A	54	27.786	14.916	33.928	1.00	31.73	C
ATOM	341	C	ARG	A	54	27.358	15.412	35.308	1.00	32.02	C
ATOM	342	O	ARG	A	54	26.163	15.592	35.562	1.00	32.31	O
ATOM	343	CB	ARG	A	54	27.789	16.080	32.931	1.00	31.78	C
ATOM	344	N	SER	A	58	19.539	24.051	39.068	1.00	50.63	N
ATOM	345	CA	SER	A	58	20.284	23.063	38.287	1.00	50.22	C
ATOM	346	C	SER	A	58	20.680	21.820	39.109	1.00	49.81	C
ATOM	347	O	SER	A	58	20.399	20.698	38.676	1.00	50.12	O
ATOM	348	CB	SER	A	58	21.494	23.706	37.597	1.00	50.55	C
ATOM	349	OG	SER	A	58	21.122	24.917	36.951	1.00	51.16	O
ATOM	350	N	PRO	A	59	21.322	21.991	40.270	1.00	48.85	N
ATOM	351	CA	PRO	A	59	21.537	20.860	41.182	1.00	48.01	C
ATOM	352	C	PRO	A	59	20.206	20.364	41.754	1.00	46.81	C
ATOM	353	O	PRO	A	59	19.345	21.180	42.112	1.00	46.82	O
ATOM	354	CB	PRO	A	59	22.412	21.459	42.287	1.00	48.31	C

FIG. 5F

ATOM	355	CG	PRO	A	59	23.010	22.670	41.671	1.00	48.96	C
ATOM	356	CD	PRO	A	59	21.917	23.228	40.807	1.00	49.26	C
ATOM	357	N	LYS	A	60	20.048	19.044	41.827	1.00	44.81	N
ATOM	358	CA	LYS	A	60	18.764	18.438	42.154	1.00	43.01	C
ATOM	359	C	LYS	A	60	18.870	17.419	43.282	1.00	41.79	C
ATOM	360	O	LYS	A	60	19.883	16.735	43.424	1.00	41.70	O
ATOM	361	CB	LYS	A	60	18.167	17.775	40.910	1.00	43.20	C
ATOM	362	N	ALA	A	61	17.813	17.327	44.081	1.00	40.01	N
ATOM	363	CA	ALA	A	61	17.735	16.332	45.136	1.00	38.28	C
ATOM	364	C	ALA	A	61	17.434	14.973	44.528	1.00	37.38	C
ATOM	365	O	ALA	A	61	16.747	14.881	43.500	1.00	37.44	O
ATOM	366	CB	ALA	A	61	16.669	16.706	46.138	1.00	38.33	C
ATOM	367	N	ASN	A	62	17.941	13.927	45.173	1.00	35.32	N
ATOM	368	CA	ASN	A	62	17.749	12.557	44.711	1.00	33.87	C
ATOM	369	C	ASN	A	62	16.283	12.160	44.575	1.00	33.26	C
ATOM	370	O	ASN	A	62	15.938	11.369	43.700	1.00	32.65	O
ATOM	371	CB	ASN	A	62	18.504	11.575	45.613	1.00	33.16	C
ATOM	372	CG	ASN	A	62	20.007	11.672	45.443	1.00	31.36	C
ATOM	373	OD1	ASN	A	62	20.495	12.030	44.378	1.00	29.55	O
ATOM	374	ND2	ASN	A	62	20.748	11.355	46.497	1.00	30.76	N
ATOM	375	N	LYS	A	63	15.433	12.716	45.439	1.00	32.87	N
ATOM	376	CA	LYS	A	63	13.982	12.535	45.347	1.00	32.57	C
ATOM	377	C	LYS	A	63	13.442	13.039	44.003	1.00	31.95	C
ATOM	378	O	LYS	A	63	12.674	12.340	43.341	1.00	31.76	O
ATOM	379	CB	LYS	A	63	13.274	13.242	46.508	1.00	32.63	C
ATOM	380	CG	LYS	A	63	11.799	12.903	46.642	1.00	33.34	C
ATOM	381	CD	LYS	A	63	10.922	14.062	46.192	1.00	34.80	C
ATOM	382	CE	LYS	A	63	9.510	13.959	46.760	1.00	35.00	C
ATOM	383	NZ	LYS	A	63	8.667	12.959	46.037	1.00	34.41	N
ATOM	384	N	GLU	A	64	13.866	14.243	43.611	1.00	31.60	N
ATOM	385	CA	GLU	A	64	13.473	14.856	42.335	1.00	31.29	C
ATOM	386	C	GLU	A	64	13.942	14.008	41.151	1.00	30.22	C
ATOM	387	O	GLU	A	64	13.179	13.774	40.211	1.00	30.16	O
ATOM	388	CB	GLU	A	64	14.009	16.297	42.217	1.00	31.90	C
ATOM	389	CG	GLU	A	64	13.717	17.185	43.426	1.00	34.19	C
ATOM	390	CD	GLU	A	64	14.354	18.563	43.325	1.00	36.57	C
ATOM	391	OE1	GLU	A	64	15.584	18.684	43.535	1.00	37.30	O
ATOM	392	OE2	GLU	A	64	13.621	19.535	43.044	1.00	38.23	O
ATOM	393	N	ILE	A	65	15.183	13.527	41.221	1.00	29.20	N
ATOM	394	CA	ILE	A	65	15.747	12.657	40.185	1.00	28.46	C
ATOM	395	C	ILE	A	65	14.981	11.335	40.055	1.00	27.91	C
ATOM	396	O	ILE	A	65	14.675	10.903	38.942	1.00	27.51	O
ATOM	397	CB	ILE	A	65	17.264	12.419	40.417	1.00	28.67	C
ATOM	398	CG1	ILE	A	65	18.038	13.741	40.273	1.00	28.41	C
ATOM	399	CD1	ILE	A	65	19.425	13.732	40.880	1.00	27.82	C
ATOM	400	CG2	ILE	A	65	17.811	11.343	39.452	1.00	28.82	C
ATOM	401	N	LEU	A	66	14.651	10.711	41.184	1.00	27.42	N
ATOM	402	CA	LEU	A	66	13.949	9.422	41.159	1.00	27.61	C
ATOM	403	C	LEU	A	66	12.507	9.539	40.657	1.00	27.13	C
ATOM	404	O	LEU	A	66	12.043	8.676	39.907	1.00	27.11	O
ATOM	405	CB	LEU	A	66	14.007	8.712	42.516	1.00	27.31	C
ATOM	406	CG	LEU	A	66	15.374	8.154	42.929	1.00	27.72	C
ATOM	407	CD1	LEU	A	66	15.389	7.907	44.416	1.00	27.05	C
ATOM	408	CD2	LEU	A	66	15.748	6.881	42.168	1.00	27.26	C
ATOM	409	N	ASP	A	67	11.822	10.612	41.056	1.00	27.04	N
ATOM	410	CA	ASP	A	67	10.485	10.940	40.539	1.00	26.69	C
ATOM	411	C	ASP	A	67	10.494	11.086	39.018	1.00	25.69	C
ATOM	412	O	ASP	A	67	9.629	10.548	38.332	1.00	25.85	O
ATOM	413	CB	ASP	A	67	9.971	12.239	41.162	1.00	27.16	C
ATOM	414	CG	ASP	A	67	9.361	12.032	42.539	1.00	29.29	C

FIG. 5G

ATOM	415	OD1	ASP	A	67	8.972	10.886	42.875	1.00	29.74	O
ATOM	416	OD2	ASP	A	67	9.231	12.974	43.354	1.00	30.45	O
ATOM	417	N	GLU	A	68	11.468	11.832	38.508	1.00	24.70	N
ATOM	418	CA	GLU	A	68	11.726	11.918	37.073	1.00	24.03	C
ATOM	419	C	GLU	A	68	11.972	10.533	36.470	1.00	23.27	C
ATOM	420	O	GLU	A	68	11.312	10.152	35.509	1.00	23.42	O
ATOM	421	CB	GLU	A	68	12.923	12.834	36.801	1.00	23.85	C
ATOM	422	CG	GLU	A	68	12.592	14.319	36.917	1.00	25.07	C
ATOM	423	N	ALA	A	69	12.896	9.776	37.064	1.00	22.26	N
ATOM	424	CA	ALA	A	69	13.280	8.456	36.557	1.00	21.45	C
ATOM	425	C	ALA	A	69	12.112	7.455	36.455	1.00	21.00	C
ATOM	426	O	ALA	A	69	12.124	6.560	35.607	1.00	20.28	O
ATOM	427	CB	ALA	A	69	14.426	7.876	37.396	1.00	21.07	C
ATOM	428	N	TYR	A	70	11.115	7.612	37.325	1.00	20.80	N
ATOM	429	CA	TYR	A	70	9.941	6.744	37.324	1.00	20.38	C
ATOM	430	C	TYR	A	70	9.068	6.998	36.099	1.00	19.92	C
ATOM	431	O	TYR	A	70	8.530	6.061	35.499	1.00	19.47	O
ATOM	432	CB	TYR	A	70	9.127	6.937	38.608	1.00	20.99	C
ATOM	433	N	VAL	A	71	8.942	8.269	35.723	1.00	19.60	N
ATOM	434	CA	VAL	A	71	8.214	8.643	34.509	1.00	19.21	C
ATOM	435	C	VAL	A	71	8.933	8.051	33.287	1.00	19.25	C
ATOM	436	O	VAL	A	71	8.305	7.430	32.434	1.00	19.48	O
ATOM	437	CB	VAL	A	71	8.023	10.184	34.414	1.00	19.46	C
ATOM	438	CG1	VAL	A	71	7.482	10.609	33.047	1.00	19.14	C
ATOM	439	CG2	VAL	A	71	7.092	10.683	35.550	1.00	18.30	C
ATOM	440	N	MET	A	72	10.253	8.195	33.245	1.00	19.41	N
ATOM	441	CA	MET	A	72	11.070	7.693	32.135	1.00	20.02	C
ATOM	442	C	MET	A	72	11.009	6.176	32.013	1.00	20.27	C
ATOM	443	O	MET	A	72	11.137	5.632	30.910	1.00	19.98	O
ATOM	444	CB	MET	A	72	12.529	8.125	32.307	1.00	19.83	C
ATOM	445	CG	MET	A	72	12.760	9.615	32.117	1.00	20.80	C
ATOM	446	SD	MET	A	72	14.129	10.241	33.089	1.00	22.57	S
ATOM	447	CE	MET	A	72	15.484	9.837	32.011	1.00	20.49	C
ATOM	448	N	ALA	A	73	10.831	5.515	33.157	1.00	20.62	N
ATOM	449	CA	ALA	A	73	10.760	4.065	33.249	1.00	21.88	C
ATOM	450	C	ALA	A	73	9.353	3.539	32.973	1.00	22.79	C
ATOM	451	O	ALA	A	73	9.170	2.338	32.767	1.00	23.39	O
ATOM	452	CB	ALA	A	73	11.225	3.611	34.622	1.00	22.42	C
ATOM	453	N	SER	A	74	8.372	4.444	32.974	1.00	22.94	N
ATOM	454	CA	SER	A	74	6.981	4.114	32.677	1.00	22.93	C
ATOM	455	C	SER	A	74	6.666	4.201	31.183	1.00	23.31	C
ATOM	456	O	SER	A	74	5.573	3.811	30.757	1.00	23.60	O
ATOM	457	CB	SER	A	74	6.040	5.040	33.452	1.00	23.30	C
ATOM	458	OG	SER	A	74	5.894	6.301	32.805	1.00	22.24	O
ATOM	459	N	VAL	A	75	7.616	4.713	30.398	1.00	23.17	N
ATOM	460	CA	VAL	A	75	7.438	4.856	28.951	1.00	22.82	C
ATOM	461	C	VAL	A	75	7.548	3.496	28.264	1.00	22.84	C
ATOM	462	O	VAL	A	75	8.611	2.887	28.224	1.00	23.12	O
ATOM	463	CB	VAL	A	75	8.428	5.885	28.331	1.00	23.28	C
ATOM	464	CG1	VAL	A	75	8.446	5.776	26.813	1.00	22.51	C
ATOM	465	CG2	VAL	A	75	8.067	7.308	28.746	1.00	21.50	C
ATOM	466	N	ASP	A	76	6.427	3.034	27.720	1.00	22.57	N
ATOM	467	CA	ASP	A	76	6.309	1.693	27.173	1.00	21.55	C
ATOM	468	C	ASP	A	76	5.786	1.788	25.747	1.00	20.62	C
ATOM	469	O	ASP	A	76	4.584	1.803	25.521	1.00	19.62	O
ATOM	470	CB	ASP	A	76	5.378	0.861	28.068	1.00	22.23	C
ATOM	471	CG	ASP	A	76	5.120	-0.550	27.526	1.00	24.21	C
ATOM	472	OD1	ASP	A	76	6.014	-1.140	26.878	1.00	24.17	O
ATOM	473	OD2	ASP	A	76	4.039	-1.152	27.719	1.00	26.10	O
ATOM	474	N	ASN	A	77	6.714	1.872	24.791	1.00	20.02	N

FIG. 5H

ATOM	475	CA	ASN	A	77	6.391	1.994	23.371	1.00	18.19	C
ATOM	476	C	ASN	A	77	7.530	1.436	22.523	1.00	17.44	C
ATOM	477	O	ASN	A	77	8.688	1.648	22.847	1.00	17.56	O
ATOM	478	CB	ASN	A	77	6.136	3.462	23.007	1.00	18.47	C
ATOM	479	CG	ASN	A	77	5.657	3.636	21.579	1.00	17.62	C
ATOM	480	OD1	ASN	A	77	6.447	3.827	20.662	1.00	18.29	O
ATOM	481	ND2	ASN	A	77	4.361	3.542	21.387	1.00	18.96	N
ATOM	482	N	PRO	A	78	7.214	0.713	21.449	1.00	16.86	N
ATOM	483	CA	PRO	A	78	8.250	0.094	20.612	1.00	16.27	C
ATOM	484	C	PRO	A	78	9.247	1.093	20.020	1.00	16.15	C
ATOM	485	O	PRO	A	78	10.343	0.677	19.660	1.00	15.86	O
ATOM	486	CB	PRO	A	78	7.444	-0.575	19.492	1.00	16.03	C
ATOM	487	CG	PRO	A	78	6.119	-0.815	20.098	1.00	17.12	C
ATOM	488	CD	PRO	A	78	5.857	0.399	20.958	1.00	16.41	C
ATOM	489	N	HIS	A	79	8.886	2.374	19.946	1.00	15.40	N
ATOM	490	CA	HIS	A	79	9.760	3.365	19.333	1.00	15.22	C
ATOM	491	C	HIS	A	79	10.233	4.450	20.297	1.00	15.68	C
ATOM	492	O	HIS	A	79	10.677	5.519	19.863	1.00	15.57	O
ATOM	493	CB	HIS	A	79	9.092	3.955	18.080	1.00	15.62	C
ATOM	494	CG	HIS	A	79	8.611	2.909	17.121	1.00	15.43	C
ATOM	495	ND1	HIS	A	79	9.474	2.093	16.420	1.00	16.86	N
ATOM	496	CE1	HIS	A	79	8.777	1.247	15.683	1.00	16.30	C
ATOM	497	NE2	HIS	A	79	7.492	1.477	15.891	1.00	16.57	N
ATOM	498	CD2	HIS	A	79	7.361	2.501	16.798	1.00	15.31	C
ATOM	499	N	VAL	A	80	10.135	4.181	21.602	1.00	15.49	N
ATOM	500	CA	VAL	A	80	10.721	5.065	22.609	1.00	16.60	C
ATOM	501	C	VAL	A	80	11.506	4.255	23.635	1.00	17.50	C
ATOM	502	O	VAL	A	80	11.006	3.268	24.169	1.00	18.27	O
ATOM	503	CB	VAL	A	80	9.679	5.995	23.325	1.00	16.27	C
ATOM	504	CG1	VAL	A	80	10.387	7.097	24.114	1.00	14.48	C
ATOM	505	CG2	VAL	A	80	8.725	6.640	22.335	1.00	16.07	C
ATOM	506	N	CYS	A	81	12.742	4.667	23.895	1.00	18.30	N
ATOM	507	CA	CYS	A	81	13.580	3.985	24.873	1.00	19.69	C
ATOM	508	C	CYS	A	81	13.018	4.154	26.275	1.00	19.91	C
ATOM	509	O	CYS	A	81	12.730	5.276	26.707	1.00	20.18	O
ATOM	510	CB	CYS	A	81	15.003	4.531	24.822	1.00	20.00	C
ATOM	511	SG	CYS	A	81	15.814	4.263	23.228	1.00	23.58	S
ATOM	512	N	ARG	A	82	12.841	3.044	26.985	1.00	20.26	N
ATOM	513	CA	ARG	A	82	12.472	3.139	28.388	1.00	20.30	C
ATOM	514	C	ARG	A	82	13.690	3.034	29.290	1.00	19.96	C
ATOM	515	O	ARG	A	82	14.624	2.295	29.009	1.00	19.48	O
ATOM	516	CB	ARG	A	82	11.384	2.137	28.790	1.00	20.37	C
ATOM	517	CG	ARG	A	82	11.583	0.694	28.375	1.00	22.08	C
ATOM	518	CD	ARG	A	82	10.731	-0.305	29.198	1.00	22.79	C
ATOM	519	NE	ARG	A	82	10.607	0.134	30.585	1.00	23.81	N
ATOM	520	CZ	ARG	A	82	10.972	-0.573	31.651	1.00	24.16	C
ATOM	521	NH1	ARG	A	82	10.831	-0.052	32.865	1.00	23.28	N
ATOM	522	NH2	ARG	A	82	11.465	-1.798	31.515	1.00	24.76	N
ATOM	523	N	LEU	A	83	13.674	3.812	30.361	1.00	19.66	N
ATOM	524	CA	LEU	A	83	14.679	3.694	31.393	1.00	19.40	C
ATOM	525	C	LEU	A	83	14.452	2.359	32.110	1.00	19.16	C
ATOM	526	O	LEU	A	83	13.349	2.087	32.567	1.00	19.07	O
ATOM	527	CB	LEU	A	83	14.591	4.886	32.371	1.00	18.78	C
ATOM	528	CG	LEU	A	83	15.713	4.943	33.418	1.00	18.61	C
ATOM	529	CD1	LEU	A	83	17.054	4.993	32.737	1.00	17.65	C
ATOM	530	CD2	LEU	A	83	15.569	6.108	34.392	1.00	18.78	C
ATOM	531	N	LEU	A	84	15.479	1.515	32.171	1.00	19.27	N
ATOM	532	CA	LEU	A	84	15.361	0.260	32.907	1.00	19.61	C
ATOM	533	C	LEU	A	84	15.807	0.471	34.347	1.00	19.11	C
ATOM	534	O	LEU	A	84	15.124	0.067	35.287	1.00	19.28	O

FIG. 5I

ATOM	535	CB	LEU	A	84	16.189	-0.870	32.262	1.00	19.77	C
ATOM	536	CG	LEU	A	84	15.880	-1.353	30.845	1.00	21.49	C
ATOM	537	CD1	LEU	A	84	16.915	-2.373	30.424	1.00	22.18	C
ATOM	538	CD2	LEU	A	84	14.481	-1.930	30.708	1.00	22.51	C
ATOM	539	N	GLY	A	85	16.962	1.104	34.509	1.00	18.77	N
ATOM	540	CA	GLY	A	85	17.590	1.215	35.809	1.00	18.72	C
ATOM	541	C	GLY	A	85	18.286	2.531	36.053	1.00	18.38	C
ATOM	542	O	GLY	A	85	18.658	3.235	35.115	1.00	17.12	O
ATOM	543	N	ILE	A	86	18.440	2.855	37.336	1.00	19.45	N
ATOM	544	CA	ILE	A	86	19.195	4.021	37.785	1.00	20.39	C
ATOM	545	C	ILE	A	86	20.125	3.611	38.930	1.00	21.45	C
ATOM	546	O	ILE	A	86	19.751	2.830	39.805	1.00	21.92	O
ATOM	547	CB	ILE	A	86	18.235	5.196	38.183	1.00	20.35	C
ATOM	548	CG1	ILE	A	86	19.007	6.491	38.463	1.00	19.99	C
ATOM	549	CD1	ILE	A	86	18.243	7.731	38.107	1.00	18.21	C
ATOM	550	CG2	ILE	A	86	17.335	4.827	39.368	1.00	20.52	C
ATOM	551	N	CYS	A	87	21.352	4.114	38.896	1.00	22.72	N
ATOM	552	CA	CYS	A	87	22.290	3.933	39.995	1.00	23.21	C
ATOM	553	C	CYS	A	87	22.778	5.301	40.444	1.00	23.80	C
ATOM	554	O	CYS	A	87	23.266	6.091	39.634	1.00	23.86	O
ATOM	555	CB	CYS	A	87	23.471	3.059	39.571	1.00	23.19	C
ATOM	556	SG	CYS	A	87	24.669	2.712	40.888	1.00	23.58	S
ATOM	557	N	LEU	A	88	22.622	5.581	41.733	1.00	24.63	N
ATOM	558	CA	LEU	A	88	23.062	6.850	42.309	1.00	25.54	C
ATOM	559	C	LEU	A	88	24.330	6.629	43.127	1.00	25.98	C
ATOM	560	O	LEU	A	88	24.276	6.159	44.266	1.00	25.49	O
ATOM	561	CB	LEU	A	88	21.970	7.473	43.189	1.00	25.32	C
ATOM	562	CG	LEU	A	88	20.586	7.790	42.606	1.00	26.58	C
ATOM	563	CD1	LEU	A	88	19.607	8.152	43.740	1.00	25.60	C
ATOM	564	CD2	LEU	A	88	20.646	8.908	41.557	1.00	25.45	C
ATOM	565	N	THR	A	89	25.468	6.943	42.522	1.00	26.50	N
ATOM	566	CA	THR	A	89	26.744	6.913	43.218	1.00	27.70	C
ATOM	567	C	THR	A	89	27.369	8.308	43.149	1.00	28.02	C
ATOM	568	O	THR	A	89	26.653	9.312	43.193	1.00	28.36	O
ATOM	569	CB	THR	A	89	27.672	5.834	42.620	1.00	27.79	C
ATOM	570	OG1	THR	A	89	27.458	5.734	41.204	1.00	29.61	O
ATOM	571	CG2	THR	A	89	27.272	4.468	43.118	1.00	28.40	C
ATOM	572	N	SER	A	90	28.694	8.368	43.047	1.00	28.36	N
ATOM	573	CA	SER	A	90	29.411	9.613	42.768	1.00	28.77	C
ATOM	574	C	SER	A	90	28.861	10.319	41.530	1.00	28.51	C
ATOM	575	O	SER	A	90	28.874	11.546	41.446	1.00	29.21	O
ATOM	576	CB	SER	A	90	30.895	9.321	42.571	1.00	28.96	C
ATOM	577	OG	SER	A	90	31.140	7.923	42.627	1.00	30.78	O
ATOM	578	N	THR	A	91	28.390	9.528	40.571	1.00	27.93	N
ATOM	579	CA	THR	A	91	27.723	10.034	39.382	1.00	26.94	C
ATOM	580	C	THR	A	91	26.376	9.350	39.296	1.00	26.44	C
ATOM	581	O	THR	A	91	26.204	8.244	39.821	1.00	26.63	O
ATOM	582	CB	THR	A	91	28.533	9.684	38.104	1.00	27.12	C
ATOM	583	OG1	THR	A	91	28.800	8.277	38.078	1.00	26.60	O
ATOM	584	CG2	THR	A	91	29.933	10.314	38.127	1.00	26.50	C
ATOM	585	N	VAL	A	92	25.425	10.009	38.637	1.00	25.44	N
ATOM	586	CA	VAL	A	92	24.182	9.366	38.231	1.00	24.57	C
ATOM	587	C	VAL	A	92	24.460	8.515	36.983	1.00	24.00	C
ATOM	588	O	VAL	A	92	25.054	8.999	36.023	1.00	23.88	O
ATOM	589	CB	VAL	A	92	23.071	10.404	37.946	1.00	24.61	C
ATOM	590	CG1	VAL	A	92	21.773	9.725	37.520	1.00	24.41	C
ATOM	591	CG2	VAL	A	92	22.823	11.269	39.171	1.00	24.70	C
ATOM	592	N	GLN	A	93	24.056	7.246	37.015	1.00	23.07	N
ATOM	593	CA	GLN	A	93	24.162	6.369	35.847	1.00	22.58	C
ATOM	594	C	GLN	A	93	22.795	5.817	35.465	1.00	22.04	C

FIG. 5J



ATOM	595	O	GLN	A	93	22.053	5.334	36.325	1.00	21.73	O
ATOM	596	CB	GLN	A	93	25.151	5.225	36.098	1.00	22.93	C
ATOM	597	CG	GLN	A	93	26.586	5.683	36.290	1.00	24.03	C
ATOM	598	CD	GLN	A	93	27.520	4.555	36.652	1.00	25.78	C
ATOM	599	OE1	GLN	A	93	28.106	3.920	35.777	1.00	28.14	O
ATOM	600	NE2	GLN	A	93	27.667	4.301	37.936	1.00	26.44	N
ATOM	601	N	LEU	A	94	22.456	5.916	34.179	1.00	21.75	N
ATOM	602	CA	LEU	A	94	21.175	5.418	33.674	1.00	21.57	C
ATOM	603	C	LEU	A	94	21.389	4.198	32.805	1.00	21.40	C
ATOM	604	O	LEU	A	94	22.333	4.154	32.026	1.00	20.98	O
ATOM	605	CB	LEU	A	94	20.418	6.496	32.889	1.00	21.58	C
ATOM	606	CG	LEU	A	94	20.199	7.878	33.508	1.00	21.61	C
ATOM	607	CD1	LEU	A	94	19.322	8.735	32.596	1.00	22.05	C
ATOM	608	CD2	LEU	A	94	19.612	7.803	34.911	1.00	20.53	C
ATOM	609	N	ILE	A	95	20.499	3.216	32.944	1.00	21.48	N
ATOM	610	CA	ILE	A	95	20.665	1.914	32.303	1.00	21.10	C
ATOM	611	C	ILE	A	95	19.498	1.622	31.350	1.00	21.34	C
ATOM	612	O	ILE	A	95	18.327	1.671	31.751	1.00	22.01	O
ATOM	613	CB	ILE	A	95	20.843	0.797	33.378	1.00	21.27	C
ATOM	614	CG1	ILE	A	95	22.148	1.007	34.167	1.00	22.39	C
ATOM	615	CD1	ILE	A	95	21.982	1.673	35.535	1.00	21.44	C
ATOM	616	CG2	ILE	A	95	20.867	-0.602	32.748	1.00	19.87	C
ATOM	617	N	THR	A	96	19.825	1.341	30.090	1.00	20.59	N
ATOM	618	CA	THR	A	96	18.813	1.072	29.061	1.00	21.13	C
ATOM	619	C	THR	A	96	19.181	-0.143	28.219	1.00	21.31	C
ATOM	620	O	THR	A	96	20.293	-0.672	28.311	1.00	21.68	O
ATOM	621	CB	THR	A	96	18.605	2.301	28.117	1.00	20.82	C
ATOM	622	OG1	THR	A	96	19.871	2.759	27.619	1.00	20.52	O
ATOM	623	CG2	THR	A	96	18.061	3.502	28.868	1.00	19.81	C
ATOM	624	N	GLN	A	97	18.241	-0.576	27.391	1.00	21.60	N
ATOM	625	CA	GLN	A	97	18.507	-1.619	26.413	1.00	21.95	C
ATOM	626	C	GLN	A	97	19.525	-1.113	25.383	1.00	21.61	C
ATOM	627	O	GLN	A	97	19.402	0.002	24.872	1.00	21.52	O
ATOM	628	CB	GLN	A	97	17.201	-2.033	25.729	1.00	22.65	C
ATOM	629	CG	GLN	A	97	17.345	-3.175	24.729	1.00	25.42	C
ATOM	630	CD	GLN	A	97	16.024	-3.602	24.125	1.00	27.64	C
ATOM	631	OE1	GLN	A	97	15.306	-2.789	23.542	1.00	30.44	O
ATOM	632	NE2	GLN	A	97	15.702	-4.879	24.253	1.00	28.73	N
ATOM	633	N	LEU	A	98	20.526	-1.935	25.089	1.00	21.21	N
ATOM	634	CA	LEU	A	98	21.557	-1.586	24.120	1.00	21.22	C
ATOM	635	C	LEU	A	98	20.970	-1.528	22.715	1.00	20.98	C
ATOM	636	O	LEU	A	98	20.366	-2.488	22.254	1.00	20.92	O
ATOM	637	CB	LEU	A	98	22.715	-2.592	24.169	1.00	21.47	C
ATOM	638	CG	LEU	A	98	23.869	-2.369	23.184	1.00	21.69	C
ATOM	639	CD1	LEU	A	98	24.765	-1.243	23.669	1.00	22.47	C
ATOM	640	CD2	LEU	A	98	24.689	-3.650	22.959	1.00	21.77	C
ATOM	641	N	MET	A	99	21.131	-0.384	22.060	1.00	20.84	N
ATOM	642	CA	MET	A	99	20.710	-0.211	20.679	1.00	20.64	C
ATOM	643	C	MET	A	99	21.974	-0.336	19.848	1.00	20.57	C
ATOM	644	O	MET	A	99	22.689	0.646	19.639	1.00	20.89	O
ATOM	645	CB	MET	A	99	20.041	1.156	20.477	1.00	20.96	C
ATOM	646	CG	MET	A	99	18.836	1.406	21.382	1.00	21.84	C
ATOM	647	SD	MET	A	99	17.421	0.417	20.855	1.00	24.46	S
ATOM	648	CE	MET	A	99	16.831	-0.214	22.362	1.00	23.27	C
ATOM	649	N	PRO	A	100	22.246	-1.555	19.383	1.00	20.44	N
ATOM	650	CA	PRO	A	100	23.590	-1.941	18.929	1.00	20.46	C
ATOM	651	C	PRO	A	100	24.080	-1.273	17.648	1.00	20.46	C
ATOM	652	O	PRO	A	100	25.259	-1.373	17.334	1.00	21.31	O
ATOM	653	CB	PRO	A	100	23.465	-3.455	18.724	1.00	20.75	C
ATOM	654	CG	PRO	A	100	22.030	-3.683	18.442	1.00	20.42	C

FIG. 5K

ATOM	655	CD	PRO	A	100	21.282	-2.665	19.259	1.00	20.01	C
ATOM	656	N	PHE	A	101	23.200	-0.600	16.925	1.00	20.55	N
ATOM	657	CA	PHE	A	101	23.598	0.075	15.694	1.00	19.71	C
ATOM	658	C	PHE	A	101	23.906	1.557	15.917	1.00	19.31	C
ATOM	659	O	PHE	A	101	24.315	2.251	14.987	1.00	19.85	O
ATOM	660	CB	PHE	A	101	22.531	-0.112	14.610	1.00	19.90	C
ATOM	661	CG	PHE	A	101	22.474	-1.507	14.040	1.00	18.56	C
ATOM	662	CD1	PHE	A	101	23.169	-1.824	12.883	1.00	19.54	C
ATOM	663	CE1	PHE	A	101	23.119	-3.114	12.337	1.00	20.06	C
ATOM	664	CZ	PHE	A	101	22.360	-4.098	12.957	1.00	21.11	C
ATOM	665	CE2	PHE	A	101	21.653	-3.789	14.129	1.00	21.19	C
ATOM	666	CD2	PHE	A	101	21.715	-2.493	14.654	1.00	19.92	C
ATOM	667	N	GLY	A	102	23.724	2.029	17.149	1.00	18.54	N
ATOM	668	CA	GLY	A	102	24.049	3.399	17.509	1.00	18.28	C
ATOM	669	C	GLY	A	102	22.976	4.405	17.128	1.00	18.17	C
ATOM	670	O	GLY	A	102	21.804	4.045	16.960	1.00	17.69	O
ATOM	671	N	CYS	A	103	23.364	5.672	16.990	1.00	17.96	N
ATOM	672	CA	CYS	A	103	22.384	6.703	16.660	1.00	18.60	C
ATOM	673	C	CYS	A	103	22.111	6.792	15.160	1.00	18.16	C
ATOM	674	O	CYS	A	103	22.958	6.436	14.332	1.00	17.63	O
ATOM	675	CB	CYS	A	103	22.705	8.056	17.314	1.00	18.88	C
ATOM	676	SG	CYS	A	103	23.933	9.125	16.540	1.00	23.76	S
ATOM	677	N	LEU	A	104	20.899	7.225	14.824	1.00	18.08	N
ATOM	678	CA	LEU	A	104	20.456	7.283	13.432	1.00	18.04	C
ATOM	679	C	LEU	A	104	21.243	8.286	12.604	1.00	17.84	C
ATOM	680	O	LEU	A	104	21.523	8.039	11.436	1.00	17.15	O
ATOM	681	CB	LEU	A	104	18.954	7.567	13.350	1.00	18.23	C
ATOM	682	CG	LEU	A	104	18.217	7.360	12.021	1.00	17.77	C
ATOM	683	CD1	LEU	A	104	18.632	6.090	11.306	1.00	18.61	C
ATOM	684	CD2	LEU	A	104	16.715	7.389	12.264	1.00	17.10	C
ATOM	685	N	LEU	A	105	21.611	9.409	13.217	1.00	18.13	N
ATOM	686	CA	LEU	A	105	22.395	10.428	12.525	1.00	18.51	C
ATOM	687	C	LEU	A	105	23.710	9.851	11.989	1.00	18.73	C
ATOM	688	O	LEU	A	105	24.024	10.026	10.814	1.00	18.31	O
ATOM	689	CB	LEU	A	105	22.679	11.626	13.438	1.00	18.21	C
ATOM	690	CG	LEU	A	105	23.532	12.745	12.828	1.00	17.88	C
ATOM	691	CD1	LEU	A	105	22.832	13.392	11.628	1.00	17.11	C
ATOM	692	CD2	LEU	A	105	23.866	13.790	13.882	1.00	18.01	C
ATOM	693	N	ASP	A	106	24.468	9.177	12.855	1.00	18.92	N
ATOM	694	CA	ASP	A	106	25.702	8.505	12.446	1.00	19.98	C
ATOM	695	C	ASP	A	106	25.411	7.402	11.450	1.00	19.53	C
ATOM	696	O	ASP	A	106	26.184	7.183	10.513	1.00	19.02	O
ATOM	697	CB	ASP	A	106	26.436	7.907	13.648	1.00	20.21	C
ATOM	698	CG	ASP	A	106	27.046	8.959	14.529	1.00	22.69	C
ATOM	699	OD1	ASP	A	106	27.205	10.117	14.076	1.00	25.34	O
ATOM	700	OD2	ASP	A	106	27.389	8.727	15.701	1.00	25.14	O
ATOM	701	N	TYR	A	107	24.294	6.712	11.660	1.00	19.26	N
ATOM	702	CA	TYR	A	107	23.916	5.633	10.768	1.00	20.05	C
ATOM	703	C	TYR	A	107	23.729	6.104	9.324	1.00	20.13	C
ATOM	704	O	TYR	A	107	24.266	5.490	8.404	1.00	19.85	O
ATOM	705	CB	TYR	A	107	22.660	4.907	11.258	1.00	19.83	C
ATOM	706	CG	TYR	A	107	22.399	3.660	10.462	1.00	20.23	C
ATOM	707	CD1	TYR	A	107	23.043	2.459	10.775	1.00	19.74	C
ATOM	708	CE1	TYR	A	107	22.812	1.319	10.030	1.00	20.62	C
ATOM	709	CZ	TYR	A	107	21.948	1.381	8.940	1.00	20.32	C
ATOM	710	OH	TYR	A	107	21.701	0.268	8.192	1.00	20.73	O
ATOM	711	CE2	TYR	A	107	21.313	2.558	8.604	1.00	20.02	C
ATOM	712	CD2	TYR	A	107	21.549	3.689	9.358	1.00	20.45	C
ATOM	713	N	VAL	A	108	22.960	7.178	9.139	1.00	20.55	N
ATOM	714	CA	VAL	A	108	22.677	7.702	7.803	1.00	20.82	C

FIG. 5L

ATOM	715	C	VAL	A	108	23.940	8.266	7.147	1.00	21.24	C
ATOM	716	O	VAL	A	108	24.123	8.117	5.941	1.00	21.02	O
ATOM	717	CB	VAL	A	108	21.497	8.721	7.771	1.00	21.20	C
ATOM	718	CG1	VAL	A	108	20.225	8.101	8.345	1.00	20.62	C
ATOM	719	CG2	VAL	A	108	21.847	10.033	8.495	1.00	21.22	C
ATOM	720	N	ARG	A	109	24.813	8.880	7.950	1.00	21.24	N
ATOM	721	CA	ARG	A	109	26.085	9.413	7.458	1.00	21.59	C
ATOM	722	C	ARG	A	109	27.042	8.321	6.973	1.00	22.33	C
ATOM	723	O	ARG	A	109	27.792	8.519	6.005	1.00	21.98	O
ATOM	724	CB	ARG	A	109	26.777	10.224	8.543	1.00	21.05	C
ATOM	725	CG	ARG	A	109	26.213	11.597	8.738	1.00	20.31	C
ATOM	726	CD	ARG	A	109	26.821	12.343	9.909	1.00	19.56	C
ATOM	727	NE	ARG	A	109	26.153	13.624	10.073	1.00	21.62	N
ATOM	728	CZ	ARG	A	109	26.400	14.488	11.038	1.00	21.72	C
ATOM	729	NH1	ARG	A	109	27.318	14.221	11.956	1.00	22.70	N
ATOM	730	NH2	ARG	A	109	25.717	15.622	11.091	1.00	21.34	N
ATOM	731	N	GLU	A	110	27.017	7.183	7.664	1.00	23.09	N
ATOM	732	CA	GLU	A	110	27.893	6.055	7.361	1.00	24.21	C
ATOM	733	C	GLU	A	110	27.354	5.157	6.241	1.00	25.04	C
ATOM	734	O	GLU	A	110	28.128	4.645	5.424	1.00	25.10	O
ATOM	735	CB	GLU	A	110	28.136	5.221	8.624	1.00	24.23	C
ATOM	736	N	HIS	A	111	26.035	4.974	6.201	1.00	25.65	N
ATOM	737	CA	HIS	A	111	25.430	4.048	5.248	1.00	26.65	C
ATOM	738	C	HIS	A	111	24.667	4.718	4.101	1.00	26.96	C
ATOM	739	O	HIS	A	111	23.915	4.057	3.388	1.00	27.26	O
ATOM	740	CB	HIS	A	111	24.566	3.015	5.979	1.00	27.06	C
ATOM	741	CG	HIS	A	111	25.337	2.163	6.941	1.00	27.67	C
ATOM	742	ND1	HIS	A	111	25.385	2.424	8.294	1.00	28.34	N
ATOM	743	CE1	HIS	A	111	26.139	1.517	8.891	1.00	27.95	C
ATOM	744	NE2	HIS	A	111	26.589	0.682	7.973	1.00	28.73	N
ATOM	745	CD2	HIS	A	111	26.105	1.065	6.744	1.00	28.20	C
ATOM	746	N	LYS	A	112	24.887	6.020	3.926	1.00	27.81	N
ATOM	747	CA	LYS	A	112	24.351	6.804	2.810	1.00	28.57	C
ATOM	748	C	LYS	A	112	24.040	5.975	1.567	1.00	28.96	C
ATOM	749	O	LYS	A	112	22.883	5.848	1.153	1.00	29.68	O
ATOM	750	CB	LYS	A	112	25.373	7.864	2.404	1.00	29.20	C
ATOM	751	CG	LYS	A	112	25.185	9.227	3.019	1.00	30.74	C
ATOM	752	CD	LYS	A	112	25.990	10.277	2.257	1.00	31.91	C
ATOM	753	CE	LYS	A	112	27.460	10.243	2.658	1.00	32.73	C
ATOM	754	N	ASP	A	113	25.096	5.414	0.985	1.00	28.50	N
ATOM	755	CA	ASP	A	113	25.046	4.751	-0.311	1.00	28.71	C
ATOM	756	C	ASP	A	113	24.245	3.444	-0.319	1.00	28.51	C
ATOM	757	O	ASP	A	113	24.078	2.817	-1.370	1.00	28.24	O
ATOM	758	CB	ASP	A	113	26.480	4.512	-0.821	1.00	28.59	C
ATOM	759	N	ASN	A	114	23.746	3.047	0.848	1.00	28.67	N
ATOM	760	CA	ASN	A	114	23.028	1.786	1.008	1.00	28.37	C
ATOM	761	C	ASN	A	114	21.589	1.949	1.495	1.00	28.14	C
ATOM	762	O	ASN	A	114	20.830	0.971	1.550	1.00	28.48	O
ATOM	763	CB	ASN	A	114	23.796	0.878	1.969	1.00	29.15	C
ATOM	764	N	ILE	A	115	21.212	3.180	1.837	1.00	27.09	N
ATOM	765	CA	ILE	A	115	19.898	3.441	2.420	1.00	26.21	C
ATOM	766	C	ILE	A	115	18.835	3.702	1.349	1.00	25.87	C
ATOM	767	O	ILE	A	115	18.948	4.646	0.554	1.00	26.14	O
ATOM	768	CB	ILE	A	115	19.975	4.601	3.449	1.00	26.01	C
ATOM	769	CG1	ILE	A	115	20.773	4.158	4.673	1.00	25.48	C
ATOM	770	CD1	ILE	A	115	21.239	5.287	5.543	1.00	25.59	C
ATOM	771	CG2	ILE	A	115	18.592	5.033	3.878	1.00	25.91	C
ATOM	772	N	GLY	A	116	17.813	2.846	1.341	1.00	24.91	N
ATOM	773	CA	GLY	A	116	16.731	2.923	0.380	1.00	23.63	C
ATOM	774	C	GLY	A	116	15.550	3.733	0.882	1.00	23.43	C

FIG. 5M

ATOM	775	O	GLY	A	116	15.502	4.152	2.050	1.00	23.30	O
ATOM	776	N	SER	A	117	14.582	3.943	-0.004	1.00	22.42	N
ATOM	777	CA	SER	A	117	13.457	4.822	0.293	1.00	21.39	C
ATOM	778	C	SER	A	117	12.503	4.205	1.308	1.00	20.66	C
ATOM	779	O	SER	A	117	11.892	4.926	2.090	1.00	20.21	O
ATOM	780	CB	SER	A	117	12.727	5.234	-0.989	1.00	21.38	C
ATOM	781	OG	SER	A	117	12.203	4.108	-1.669	1.00	21.36	O
ATOM	782	N	GLN	A	118	12.392	2.877	1.306	1.00	20.00	N
ATOM	783	CA	GLN	A	118	11.538	2.190	2.273	1.00	20.08	C
ATOM	784	C	GLN	A	118	11.970	2.440	3.720	1.00	19.51	C
ATOM	785	O	GLN	A	118	11.143	2.819	4.567	1.00	19.34	O
ATOM	786	CB	GLN	A	118	11.456	0.686	1.998	1.00	19.66	C
ATOM	787	CG	GLN	A	118	10.421	-0.030	2.876	1.00	21.00	C
ATOM	788	CD	GLN	A	118	8.985	0.324	2.513	1.00	22.64	C
ATOM	789	OE1	GLN	A	118	8.403	-0.281	1.615	1.00	23.31	O
ATOM	790	NE2	GLN	A	118	8.417	1.310	3.205	1.00	23.01	N
ATOM	791	N	TYR	A	119	13.263	2.239	3.983	1.00	19.00	N
ATOM	792	CA	TYR	A	119	13.826	2.413	5.319	1.00	18.72	C
ATOM	793	C	TYR	A	119	13.670	3.862	5.785	1.00	18.41	C
ATOM	794	O	TYR	A	119	13.241	4.109	6.917	1.00	18.22	O
ATOM	795	CB	TYR	A	119	15.293	1.969	5.363	1.00	18.00	C
ATOM	796	CG	TYR	A	119	15.543	0.459	5.435	1.00	18.47	C
ATOM	797	CD1	TYR	A	119	16.845	-0.045	5.342	1.00	18.34	C
ATOM	798	CE1	TYR	A	119	17.110	-1.412	5.406	1.00	18.42	C
ATOM	799	CZ	TYR	A	119	16.071	-2.307	5.565	1.00	19.18	C
ATOM	800	OH	TYR	A	119	16.365	-3.661	5.636	1.00	18.14	O
ATOM	801	CE2	TYR	A	119	14.751	-1.841	5.664	1.00	18.93	C
ATOM	802	CD2	TYR	A	119	14.497	-0.460	5.600	1.00	18.45	C
ATOM	803	N	LEU	A	120	13.975	4.806	4.891	1.00	18.95	N
ATOM	804	CA	LEU	A	120	13.894	6.244	5.187	1.00	19.17	C
ATOM	805	C	LEU	A	120	12.508	6.643	5.673	1.00	18.74	C
ATOM	806	O	LEU	A	120	12.363	7.299	6.707	1.00	18.45	O
ATOM	807	CB	LEU	A	120	14.264	7.076	3.960	1.00	19.44	C
ATOM	808	CG	LEU	A	120	15.758	7.312	3.693	1.00	21.10	C
ATOM	809	CD1	LEU	A	120	15.971	7.837	2.273	1.00	20.10	C
ATOM	810	CD2	LEU	A	120	16.409	8.248	4.728	1.00	20.90	C
ATOM	811	N	LEU	A	121	11.497	6.212	4.924	1.00	18.66	N
ATOM	812	CA	LEU	A	121	10.109	6.510	5.227	1.00	18.36	C
ATOM	813	C	LEU	A	121	9.618	5.743	6.439	1.00	18.61	C
ATOM	814	O	LEU	A	121	8.786	6.249	7.198	1.00	19.68	O
ATOM	815	CB	LEU	A	121	9.232	6.207	4.012	1.00	18.98	C
ATOM	816	CG	LEU	A	121	9.392	7.129	2.793	1.00	19.19	C
ATOM	817	CD1	LEU	A	121	8.703	6.515	1.584	1.00	18.33	C
ATOM	818	CD2	LEU	A	121	8.850	8.551	3.060	1.00	18.58	C
ATOM	819	N	ASN	A	122	10.120	4.520	6.622	1.00	18.38	N
ATOM	820	CA	ASN	A	122	9.759	3.706	7.786	1.00	17.11	C
ATOM	821	C	ASN	A	122	10.309	4.315	9.065	1.00	16.63	C
ATOM	822	O	ASN	A	122	9.713	4.157	10.132	1.00	16.54	O
ATOM	823	CB	ASN	A	122	10.263	2.262	7.653	1.00	17.07	C
ATOM	824	CG	ASN	A	122	9.367	1.386	6.768	1.00	17.24	C
ATOM	825	OD1	ASN	A	122	8.336	1.819	6.253	1.00	17.42	O
ATOM	826	ND2	ASN	A	122	9.780	0.142	6.587	1.00	17.01	N
ATOM	827	N	TRP	A	123	11.450	4.995	8.963	1.00	15.72	N
ATOM	828	CA	TRP	A	123	12.001	5.711	10.113	1.00	15.48	C
ATOM	829	C	TRP	A	123	11.105	6.893	10.473	1.00	15.29	C
ATOM	830	O	TRP	A	123	10.834	7.121	11.644	1.00	15.63	O
ATOM	831	CB	TRP	A	123	13.454	6.171	9.870	1.00	15.22	C
ATOM	832	CG	TRP	A	123	14.436	5.053	9.685	1.00	14.30	C
ATOM	833	CD1	TRP	A	123	14.354	3.788	10.207	1.00	14.15	C
ATOM	834	NE1	TRP	A	123	15.441	3.041	9.810	1.00	15.26	N

FIG. 5N

ATOM	835	CE2	TRP	A	123	16.257	3.817	9.025	1.00	14.52	C
ATOM	836	CD2	TRP	A	123	15.654	5.092	8.924	1.00	13.71	C
ATOM	837	CE3	TRP	A	123	16.304	6.080	8.167	1.00	13.55	C
ATOM	838	CZ3	TRP	A	123	17.513	5.765	7.533	1.00	12.79	C
ATOM	839	CH2	TRP	A	123	18.084	4.489	7.656	1.00	13.28	C
ATOM	840	CZ2	TRP	A	123	17.476	3.503	8.393	1.00	14.31	C
ATOM	841	N	CYS	A	124	10.634	7.625	9.460	1.00	15.14	N
ATOM	842	CA	CYS	A	124	9.698	8.736	9.660	1.00	15.21	C
ATOM	843	C	CYS	A	124	8.424	8.311	10.374	1.00	14.82	C
ATOM	844	O	CYS	A	124	7.975	8.985	11.306	1.00	14.56	O
ATOM	845	CB	CYS	A	124	9.313	9.371	8.324	1.00	15.93	C
ATOM	846	SG	CYS	A	124	10.641	10.270	7.513	1.00	16.36	S
ATOM	847	N	VAL	A	125	7.838	7.203	9.919	1.00	14.31	N
ATOM	848	CA	VAL	A	125	6.629	6.654	10.524	1.00	13.89	C
ATOM	849	C	VAL	A	125	6.894	6.286	11.980	1.00	14.21	C
ATOM	850	O	VAL	A	125	6.124	6.649	12.874	1.00	14.19	O
ATOM	851	CB	VAL	A	125	6.120	5.403	9.729	1.00	14.52	C
ATOM	852	CG1	VAL	A	125	5.024	4.644	10.486	1.00	12.49	C
ATOM	853	CG2	VAL	A	125	5.643	5.801	8.344	1.00	13.42	C
ATOM	854	N	GLN	A	126	8.003	5.586	12.211	1.00	14.40	N
ATOM	855	CA	GLN	A	126	8.347	5.096	13.550	1.00	14.70	C
ATOM	856	C	GLN	A	126	8.545	6.203	14.576	1.00	14.00	C
ATOM	857	O	GLN	A	126	8.036	6.108	15.698	1.00	13.54	O
ATOM	858	CB	GLN	A	126	9.578	4.195	13.490	1.00	15.10	C
ATOM	859	CG	GLN	A	126	9.282	2.826	12.880	1.00	17.17	C
ATOM	860	CD	GLN	A	126	10.525	1.999	12.700	1.00	20.96	C
ATOM	861	OE1	GLN	A	126	11.302	1.830	13.639	1.00	22.68	O
ATOM	862	NE2	GLN	A	126	10.728	1.486	11.492	1.00	22.88	N
ATOM	863	N	ILE	A	127	9.278	7.246	14.184	1.00	13.37	N
ATOM	864	CA	ILE	A	127	9.502	8.412	15.042	1.00	13.63	C
ATOM	865	C	ILE	A	127	8.181	9.135	15.346	1.00	13.10	C
ATOM	866	O	ILE	A	127	7.969	9.594	16.462	1.00	13.28	O
ATOM	867	CB	ILE	A	127	10.581	9.376	14.424	1.00	13.61	C
ATOM	868	CG1	ILE	A	127	11.936	8.671	14.311	1.00	12.05	C
ATOM	869	CD1	ILE	A	127	12.841	9.240	13.224	1.00	11.70	C
ATOM	870	CG2	ILE	A	127	10.769	10.620	15.283	1.00	13.78	C
ATOM	871	N	ALA	A	128	7.289	9.199	14.361	1.00	13.28	N
ATOM	872	CA	ALA	A	128	5.961	9.778	14.555	1.00	13.03	C
ATOM	873	C	ALA	A	128	5.155	8.960	15.552	1.00	13.27	C
ATOM	874	O	ALA	A	128	4.450	9.517	16.391	1.00	13.14	O
ATOM	875	CB	ALA	A	128	5.214	9.894	13.228	1.00	12.73	C
ATOM	876	N	LYS	A	129	5.267	7.637	15.454	1.00	13.85	N
ATOM	877	CA	LYS	A	129	4.575	6.725	16.362	1.00	14.17	C
ATOM	878	C	LYS	A	129	4.990	6.930	17.819	1.00	14.33	C
ATOM	879	O	LYS	A	129	4.147	6.851	18.721	1.00	13.89	O
ATOM	880	CB	LYS	A	129	4.805	5.273	15.947	1.00	13.58	C
ATOM	881	CG	LYS	A	129	3.909	4.845	14.796	1.00	15.97	C
ATOM	882	CD	LYS	A	129	4.103	3.379	14.398	1.00	16.91	C
ATOM	883	CE	LYS	A	129	3.195	3.037	13.222	1.00	19.68	C
ATOM	884	NZ	LYS	A	129	3.293	1.603	12.810	1.00	22.45	N
ATOM	885	N	GLY	A	130	6.286	7.185	18.032	1.00	13.96	N
ATOM	886	CA	GLY	A	130	6.839	7.334	19.360	1.00	14.09	C
ATOM	887	C	GLY	A	130	6.523	8.694	19.952	1.00	14.58	C
ATOM	888	O	GLY	A	130	6.305	8.838	21.154	1.00	14.52	O
ATOM	889	N	MET	A	131	6.513	9.701	19.092	1.00	14.84	N
ATOM	890	CA	MET	A	131	6.190	11.053	19.502	1.00	14.50	C
ATOM	891	C	MET	A	131	4.703	11.145	19.830	1.00	14.37	C
ATOM	892	O	MET	A	131	4.324	11.734	20.845	1.00	14.31	O
ATOM	893	CB	MET	A	131	6.586	12.041	18.401	1.00	15.08	C
ATOM	894	CG	MET	A	131	8.087	12.293	18.237	1.00	14.49	C

FIG. 50

ATOM	895	SD	MET	A	131	9.027	12.425	19.792	1.00	17.42	S
ATOM	896	CE	MET	A	131	8.633	14.034	20.326	1.00	17.35	C
ATOM	897	N	ASN	A	132	3.870	10.531	18.989	1.00	14.50	N
ATOM	898	CA	ASN	A	132	2.442	10.400	19.264	1.00	14.90	C
ATOM	899	C	ASN	A	132	2.143	9.729	20.608	1.00	15.41	C
ATOM	900	O	ASN	A	132	1.257	10.190	21.348	1.00	15.26	O
ATOM	901	CB	ASN	A	132	1.726	9.659	18.138	1.00	15.21	C
ATOM	902	CG	ASN	A	132	0.207	9.659	18.303	1.00	16.33	C
ATOM	903	OD1	ASN	A	132	-0.443	10.671	18.090	1.00	17.58	O
ATOM	904	ND2	ASN	A	132	-0.355	8.514	18.679	1.00	16.50	N
ATOM	905	N	TYR	A	133	2.873	8.653	20.922	1.00	14.99	N
ATOM	906	CA	TYR	A	133	2.712	7.982	22.214	1.00	15.40	C
ATOM	907	C	TYR	A	133	3.041	8.947	23.351	1.00	15.44	C
ATOM	908	O	TYR	A	133	2.349	8.973	24.371	1.00	15.16	O
ATOM	909	CB	TYR	A	133	3.590	6.728	22.319	1.00	15.46	C
ATOM	910	CG	TYR	A	133	3.726	6.200	23.732	1.00	15.71	C
ATOM	911	CD1	TYR	A	133	2.803	5.288	24.248	1.00	14.82	C
ATOM	912	CE1	TYR	A	133	2.917	4.804	25.545	1.00	14.41	C
ATOM	913	CZ	TYR	A	133	3.959	5.233	26.350	1.00	15.35	C
ATOM	914	OH	TYR	A	133	4.063	4.755	27.643	1.00	15.78	O
ATOM	915	CE2	TYR	A	133	4.892	6.144	25.868	1.00	15.46	C
ATOM	916	CD2	TYR	A	133	4.774	6.622	24.563	1.00	16.54	C
ATOM	917	N	LEU	A	134	4.106	9.729	23.163	1.00	15.72	N
ATOM	918	CA	LEU	A	134	4.535	10.708	24.154	1.00	15.87	C
ATOM	919	C	LEU	A	134	3.459	11.773	24.326	1.00	16.01	C
ATOM	920	O	LEU	A	134	3.154	12.170	25.450	1.00	16.23	O
ATOM	921	CB	LEU	A	134	5.867	11.333	23.742	1.00	15.78	C
ATOM	922	CG	LEU	A	134	7.162	10.908	24.441	1.00	16.15	C
ATOM	923	CD1	LEU	A	134	7.075	9.522	25.075	1.00	15.74	C
ATOM	924	CD2	LEU	A	134	8.360	11.003	23.496	1.00	13.85	C
ATOM	925	N	GLU	A	135	2.879	12.204	23.204	1.00	16.46	N
ATOM	926	CA	GLU	A	135	1.778	13.164	23.193	1.00	17.29	C
ATOM	927	C	GLU	A	135	0.523	12.628	23.905	1.00	17.62	C
ATOM	928	O	GLU	A	135	-0.066	13.334	24.726	1.00	17.96	O
ATOM	929	CB	GLU	A	135	1.460	13.605	21.755	1.00	17.14	C
ATOM	930	CG	GLU	A	135	0.089	14.238	21.575	1.00	18.32	C
ATOM	931	CD	GLU	A	135	0.024	15.261	20.457	1.00	20.06	C
ATOM	932	OE1	GLU	A	135	-0.705	16.270	20.628	1.00	19.86	O
ATOM	933	OE2	GLU	A	135	0.682	15.061	19.406	1.00	21.64	O
ATOM	934	N	ASP	A	136	0.127	11.390	23.600	1.00	17.99	N
ATOM	935	CA	ASP	A	136	-1.043	10.772	24.220	1.00	18.35	C
ATOM	936	C	ASP	A	136	-0.874	10.707	25.733	1.00	19.10	C
ATOM	937	O	ASP	A	136	-1.845	10.796	26.483	1.00	18.65	O
ATOM	938	CB	ASP	A	136	-1.257	9.358	23.698	1.00	18.04	C
ATOM	939	CG	ASP	A	136	-1.944	9.314	22.336	1.00	18.87	C
ATOM	940	OD1	ASP	A	136	-2.681	10.265	21.956	1.00	16.22	O
ATOM	941	OD2	ASP	A	136	-1.801	8.322	21.582	1.00	18.98	O
ATOM	942	N	ARG	A	137	0.372	10.544	26.167	1.00	19.72	N
ATOM	943	CA	ARG	A	137	0.703	10.498	27.582	1.00	20.48	C
ATOM	944	C	ARG	A	137	0.945	11.900	28.142	1.00	20.61	C
ATOM	945	O	ARG	A	137	1.317	12.045	29.301	1.00	20.07	O
ATOM	946	CB	ARG	A	137	1.934	9.619	27.797	1.00	21.19	C
ATOM	947	CG	ARG	A	137	1.603	8.144	27.976	1.00	22.61	C
ATOM	948	CD	ARG	A	137	1.636	7.689	29.416	1.00	24.32	C
ATOM	949	NE	ARG	A	137	2.892	6.993	29.659	1.00	26.86	N
ATOM	950	CZ	ARG	A	137	3.675	7.191	30.698	1.00	26.31	C
ATOM	951	NH1	ARG	A	137	3.350	8.063	31.638	1.00	25.50	N
ATOM	952	NH2	ARG	A	137	4.802	6.509	30.790	1.00	28.28	N
ATOM	953	N	ARG	A	138	0.723	12.918	27.305	1.00	20.71	N
ATOM	954	CA	ARG	A	138	0.954	14.324	27.660	1.00	21.45	C

FIG. 5P

ATOM	955	C	ARG	A	138	2.372	14.556	28.187	1.00	21.36	C
ATOM	956	O	ARG	A	138	2.590	15.297	29.145	1.00	22.23	O
ATOM	957	CB	ARG	A	138	-0.111	14.852	28.638	1.00	21.55	C
ATOM	958	N	LEU	A	139	3.326	13.905	27.536	1.00	21.31	N
ATOM	959	CA	LEU	A	139	4.737	14.082	27.818	1.00	20.72	C
ATOM	960	C	LEU	A	139	5.388	14.796	26.642	1.00	19.91	C
ATOM	961	O	LEU	A	139	5.127	14.451	25.486	1.00	20.46	O
ATOM	962	CB	LEU	A	139	5.391	12.723	28.042	1.00	21.21	C
ATOM	963	CG	LEU	A	139	4.891	11.908	29.236	1.00	22.10	C
ATOM	964	CD1	LEU	A	139	5.500	10.508	29.198	1.00	21.82	C
ATOM	965	CD2	LEU	A	139	5.193	12.621	30.562	1.00	22.12	C
ATOM	966	N	VAL	A	140	6.203	15.803	26.940	1.00	18.80	N
ATOM	967	CA	VAL	A	140	6.874	16.616	25.925	1.00	17.97	C
ATOM	968	C	VAL	A	140	8.355	16.261	25.929	1.00	18.17	C
ATOM	969	O	VAL	A	140	8.998	16.315	26.979	1.00	18.14	O
ATOM	970	CB	VAL	A	140	6.674	18.157	26.183	1.00	18.07	C
ATOM	971	CG1	VAL	A	140	7.520	19.010	25.212	1.00	17.71	C
ATOM	972	CG2	VAL	A	140	5.203	18.546	26.068	1.00	15.63	C
ATOM	973	N	HIS	A	141	8.896	15.889	24.767	1.00	17.99	N
ATOM	974	CA	HIS	A	141	10.299	15.458	24.685	1.00	17.67	C
ATOM	975	C	HIS	A	141	11.287	16.612	24.830	1.00	18.35	C
ATOM	976	O	HIS	A	141	12.211	16.529	25.645	1.00	17.90	O
ATOM	977	CB	HIS	A	141	10.582	14.676	23.390	1.00	16.89	C
ATOM	978	CG	HIS	A	141	11.887	13.942	23.405	1.00	15.60	C
ATOM	979	ND1	HIS	A	141	13.103	14.578	23.267	1.00	14.91	N
ATOM	980	CE1	HIS	A	141	14.075	13.684	23.331	1.00	14.34	C
ATOM	981	NE2	HIS	A	141	13.535	12.492	23.501	1.00	13.15	N
ATOM	982	CD2	HIS	A	141	12.169	12.625	23.559	1.00	14.70	C
ATOM	983	N	ARG	A	142	11.100	17.653	24.010	1.00	19.05	N
ATOM	984	CA	ARG	A	142	11.910	18.896	24.004	1.00	20.24	C
ATOM	985	C	ARG	A	142	13.244	18.846	23.253	1.00	19.86	C
ATOM	986	O	ARG	A	142	13.824	19.900	22.958	1.00	20.25	O
ATOM	987	CB	ARG	A	142	12.174	19.438	25.416	1.00	20.56	C
ATOM	988	CG	ARG	A	142	10.944	19.745	26.217	1.00	24.00	C
ATOM	989	CD	ARG	A	142	11.195	19.734	27.703	1.00	28.85	C
ATOM	990	NE	ARG	A	142	11.586	21.058	28.172	1.00	32.64	N
ATOM	991	CZ	ARG	A	142	10.759	21.916	28.759	1.00	34.42	C
ATOM	992	NH1	ARG	A	142	9.483	21.594	28.962	1.00	35.67	N
ATOM	993	NH2	ARG	A	142	11.213	23.094	29.150	1.00	35.05	N
ATOM	994	N	ASP	A	143	13.745	17.649	22.965	1.00	19.33	N
ATOM	995	CA	ASP	A	143	15.061	17.515	22.325	1.00	19.01	C
ATOM	996	C	ASP	A	143	15.095	16.435	21.228	1.00	17.92	C
ATOM	997	O	ASP	A	143	16.052	15.667	21.119	1.00	17.22	O
ATOM	998	CB	ASP	A	143	16.154	17.288	23.387	1.00	19.42	C
ATOM	999	CG	ASP	A	143	17.570	17.549	22.861	1.00	21.49	C
ATOM	1000	OD1	ASP	A	143	17.743	18.171	21.784	1.00	21.44	O
ATOM	1001	OD2	ASP	A	143	18.588	17.150	23.475	1.00	23.75	O
ATOM	1002	N	LEU	A	144	14.045	16.401	20.408	1.00	16.80	N
ATOM	1003	CA	LEU	A	144	14.001	15.512	19.247	1.00	15.90	C
ATOM	1004	C	LEU	A	144	14.982	15.974	18.179	1.00	15.48	C
ATOM	1005	O	LEU	A	144	14.974	17.150	17.794	1.00	15.10	O
ATOM	1006	CB	LEU	A	144	12.581	15.438	18.659	1.00	15.84	C
ATOM	1007	CG	LEU	A	144	12.357	14.438	17.512	1.00	15.36	C
ATOM	1008	CD1	LEU	A	144	12.730	13.011	17.911	1.00	13.15	C
ATOM	1009	CD2	LEU	A	144	10.919	14.499	17.038	1.00	15.96	C
ATOM	1010	N	ALA	A	145	15.820	15.038	17.719	1.00	14.73	N
ATOM	1011	CA	ALA	A	145	16.845	15.275	16.693	1.00	13.65	C
ATOM	1012	C	ALA	A	145	17.372	13.912	16.272	1.00	13.72	C
ATOM	1013	O	ALA	A	145	17.207	12.940	17.025	1.00	13.86	O
ATOM	1014	CB	ALA	A	145	17.983	16.119	17.250	1.00	13.19	C

FIG. 5Q

ATOM	1015	N	ALA	A	146	18.020	13.826	15.105	1.00	12.64	N
ATOM	1016	CA	ALA	A	146	18.538	12.538	14.628	1.00	12.88	C
ATOM	1017	C	ALA	A	146	19.587	11.911	15.566	1.00	13.31	C
ATOM	1018	O	ALA	A	146	19.693	10.679	15.653	1.00	13.58	O
ATOM	1019	CB	ALA	A	146	19.073	12.649	13.221	1.00	12.31	C
ATOM	1020	N	ARG	A	147	20.335	12.756	16.280	1.00	13.66	N
ATOM	1021	CA	ARG	A	147	21.287	12.297	17.297	1.00	14.09	C
ATOM	1022	C	ARG	A	147	20.560	11.659	18.480	1.00	14.44	C
ATOM	1023	O	ARG	A	147	21.163	10.927	19.255	1.00	14.85	O
ATOM	1024	CB	ARG	A	147	22.187	13.451	17.782	1.00	14.71	C
ATOM	1025	CG	ARG	A	147	21.422	14.659	18.329	1.00	14.43	C
ATOM	1026	CD	ARG	A	147	22.251	15.715	19.062	1.00	15.49	C
ATOM	1027	NE	ARG	A	147	21.360	16.732	19.626	1.00	16.41	N
ATOM	1028	CZ	ARG	A	147	20.892	17.788	18.951	1.00	18.11	C
ATOM	1029	NH1	ARG	A	147	21.269	18.004	17.693	1.00	18.16	N
ATOM	1030	NH2	ARG	A	147	20.061	18.643	19.537	1.00	16.89	N
ATOM	1031	N	ASN	A	148	19.262	11.938	18.607	1.00	14.46	N
ATOM	1032	CA	ASN	A	148	18.454	11.421	19.707	1.00	14.71	C
ATOM	1033	C	ASN	A	148	17.480	10.299	19.289	1.00	14.74	C
ATOM	1034	O	ASN	A	148	16.562	9.931	20.034	1.00	13.85	O
ATOM	1035	CB	ASN	A	148	17.732	12.576	20.416	1.00	14.71	C
ATOM	1036	CG	ASN	A	148	18.652	13.346	21.353	1.00	16.18	C
ATOM	1037	OD1	ASN	A	148	19.732	12.875	21.704	1.00	19.21	O
ATOM	1038	ND2	ASN	A	148	18.230	14.533	21.761	1.00	16.91	N
ATOM	1039	N	VAL	A	149	17.694	9.762	18.090	1.00	14.34	N
ATOM	1040	CA	VAL	A	149	17.011	8.553	17.658	1.00	14.49	C
ATOM	1041	C	VAL	A	149	18.071	7.456	17.578	1.00	14.54	C
ATOM	1042	O	VAL	A	149	19.134	7.658	17.002	1.00	14.91	O
ATOM	1043	CB	VAL	A	149	16.287	8.735	16.294	1.00	14.23	C
ATOM	1044	CG1	VAL	A	149	15.564	7.459	15.882	1.00	13.72	C
ATOM	1045	CG2	VAL	A	149	15.314	9.907	16.341	1.00	13.59	C
ATOM	1046	N	LEU	A	150	17.789	6.310	18.185	1.00	14.84	N
ATOM	1047	CA	LEU	A	150	18.741	5.203	18.198	1.00	15.61	C
ATOM	1048	C	LEU	A	150	18.242	4.053	17.337	1.00	15.54	C
ATOM	1049	O	LEU	A	150	17.045	3.919	17.105	1.00	16.01	O
ATOM	1050	CB	LEU	A	150	19.025	4.721	19.628	1.00	14.77	C
ATOM	1051	CG	LEU	A	150	19.612	5.692	20.657	1.00	16.11	C
ATOM	1052	CD1	LEU	A	150	19.742	5.017	22.040	1.00	14.87	C
ATOM	1053	CD2	LEU	A	150	20.949	6.306	20.210	1.00	15.56	C
ATOM	1054	N	VAL	A	151	19.177	3.225	16.887	1.00	16.30	N
ATOM	1055	CA	VAL	A	151	18.899	2.137	15.960	1.00	16.74	C
ATOM	1056	C	VAL	A	151	19.056	0.795	16.673	1.00	17.53	C
ATOM	1057	O	VAL	A	151	20.166	0.388	17.030	1.00	17.31	O
ATOM	1058	CB	VAL	A	151	19.849	2.194	14.724	1.00	16.51	C
ATOM	1059	CG1	VAL	A	151	19.427	1.205	13.656	1.00	15.96	C
ATOM	1060	CG2	VAL	A	151	19.929	3.595	14.149	1.00	15.50	C
ATOM	1061	N	LYS	A	152	17.931	0.121	16.885	1.00	18.49	N
ATOM	1062	CA	LYS	A	152	17.926	-1.217	17.470	1.00	19.20	C
ATOM	1063	C	LYS	A	152	18.276	-2.229	16.377	1.00	19.12	C
ATOM	1064	O	LYS	A	152	19.193	-3.038	16.541	1.00	19.20	O
ATOM	1065	CB	LYS	A	152	16.561	-1.503	18.110	1.00	19.41	C
ATOM	1066	CG	LYS	A	152	16.160	-2.964	18.186	1.00	21.14	C
ATOM	1067	CD	LYS	A	152	16.606	-3.604	19.479	1.00	23.55	C
ATOM	1068	CE	LYS	A	152	15.576	-4.587	19.975	1.00	24.60	C
ATOM	1069	NZ	LYS	A	152	14.195	-4.098	19.681	1.00	26.65	N
ATOM	1070	N	THR	A	153	17.518	-2.179	15.281	1.00	18.93	N
ATOM	1071	CA	THR	A	153	17.873	-2.814	14.003	1.00	19.32	C
ATOM	1072	C	THR	A	153	17.679	-1.748	12.922	1.00	19.14	C
ATOM	1073	O	THR	A	153	16.933	-0.791	13.146	1.00	18.51	O
ATOM	1074	CB	THR	A	153	16.963	-4.012	13.681	1.00	18.49	C

FIG. 5R



ATOM	1075	OG1	THR	A	153	15.668	-3.529	13.306	1.00	18.93	O
ATOM	1076	CG2	THR	A	153	16.680	-4.866	14.912	1.00	19.22	C
ATOM	1077	N	PRO	A	154	18.307	-1.905	11.754	1.00	19.47	N
ATOM	1078	CA	PRO	A	154	18.166	-0.912	10.674	1.00	19.95	C
ATOM	1079	C	PRO	A	154	16.715	-0.642	10.284	1.00	20.01	C
ATOM	1080	O	PRO	A	154	16.429	0.399	9.702	1.00	20.48	O
ATOM	1081	CB	PRO	A	154	18.940	-1.544	9.520	1.00	19.75	C
ATOM	1082	CG	PRO	A	154	19.956	-2.383	10.204	1.00	19.57	C
ATOM	1083	CD	PRO	A	154	19.200	-3.007	11.351	1.00	19.61	C
ATOM	1084	N	GLN	A	155	15.811	-1.550	10.633	1.00	20.52	N
ATOM	1085	CA	GLN	A	155	14.391	-1.348	10.359	1.00	20.99	C
ATOM	1086	C	GLN	A	155	13.574	-0.922	11.592	1.00	20.58	C
ATOM	1087	O	GLN	A	155	12.384	-0.651	11.468	1.00	21.14	O
ATOM	1088	CB	GLN	A	155	13.774	-2.568	9.645	1.00	21.50	C
ATOM	1089	CG	GLN	A	155	14.100	-3.939	10.239	1.00	22.63	C
ATOM	1090	CD	GLN	A	155	15.398	-4.554	9.706	1.00	22.97	C
ATOM	1091	OE1	GLN	A	155	16.340	-4.754	10.465	1.00	23.72	O
ATOM	1092	NE2	GLN	A	155	15.434	-4.872	8.421	1.00	22.60	N
ATOM	1093	N	HIS	A	156	14.224	-0.834	12.758	1.00	20.02	N
ATOM	1094	CA	HIS	A	156	13.561	-0.470	14.013	1.00	19.04	C
ATOM	1095	C	HIS	A	156	14.307	0.609	14.816	1.00	18.95	C
ATOM	1096	O	HIS	A	156	15.363	0.352	15.410	1.00	18.48	O
ATOM	1097	CB	HIS	A	156	13.350	-1.712	14.871	1.00	19.37	C
ATOM	1098	CG	HIS	A	156	12.531	-1.476	16.101	1.00	19.41	C
ATOM	1099	ND1	HIS	A	156	12.141	-2.501	16.934	1.00	19.90	N
ATOM	1100	CE1	HIS	A	156	11.434	-2.011	17.935	1.00	19.60	C
ATOM	1101	NE2	HIS	A	156	11.357	-0.701	17.787	1.00	20.22	N
ATOM	1102	CD2	HIS	A	156	12.030	-0.341	16.643	1.00	20.26	C
ATOM	1103	N	VAL	A	157	13.734	1.814	14.839	1.00	18.44	N
ATOM	1104	CA	VAL	A	157	14.306	2.934	15.586	1.00	17.60	C
ATOM	1105	C	VAL	A	157	13.487	3.330	16.818	1.00	17.83	C
ATOM	1106	O	VAL	A	157	12.290	3.018	16.922	1.00	16.77	O
ATOM	1107	CB	VAL	A	157	14.559	4.177	14.690	1.00	17.96	C
ATOM	1108	CG1	VAL	A	157	15.529	3.850	13.556	1.00	16.46	C
ATOM	1109	CG2	VAL	A	157	13.233	4.787	14.161	1.00	16.94	C
ATOM	1110	N	LYS	A	158	14.165	4.022	17.736	1.00	17.71	N
ATOM	1111	CA	LYS	A	158	13.635	4.412	19.039	1.00	17.71	C
ATOM	1112	C	LYS	A	158	14.125	5.810	19.406	1.00	17.50	C
ATOM	1113	O	LYS	A	158	15.315	6.137	19.254	1.00	16.92	O
ATOM	1114	CB	LYS	A	158	14.111	3.436	20.121	1.00	18.27	C
ATOM	1115	CG	LYS	A	158	13.147	2.320	20.455	1.00	19.57	C
ATOM	1116	CD	LYS	A	158	13.790	0.970	20.204	1.00	21.17	C
ATOM	1117	CE	LYS	A	158	13.154	-0.136	21.038	1.00	21.90	C
ATOM	1118	NZ	LYS	A	158	13.278	0.051	22.513	1.00	21.84	N
ATOM	1119	N	ILE	A	159	13.200	6.633	19.880	1.00	17.27	N
ATOM	1120	CA	ILE	A	159	13.528	7.946	20.408	1.00	17.48	C
ATOM	1121	C	ILE	A	159	14.154	7.758	21.792	1.00	17.64	C
ATOM	1122	O	ILE	A	159	13.612	7.050	22.651	1.00	17.31	O
ATOM	1123	CB	ILE	A	159	12.250	8.845	20.468	1.00	18.03	C
ATOM	1124	CG1	ILE	A	159	11.590	8.923	19.089	1.00	17.36	C
ATOM	1125	CD1	ILE	A	159	10.074	9.055	19.146	1.00	18.32	C
ATOM	1126	CG2	ILE	A	159	12.576	10.256	20.952	1.00	16.87	C
ATOM	1127	N	THR	A	160	15.309	8.379	21.994	1.00	18.18	N
ATOM	1128	CA	THR	A	160	16.008	8.283	23.263	1.00	19.24	C
ATOM	1129	C	THR	A	160	16.080	9.622	23.978	1.00	20.13	C
ATOM	1130	O	THR	A	160	15.748	10.665	23.405	1.00	19.57	O
ATOM	1131	CB	THR	A	160	17.419	7.697	23.067	1.00	19.37	C
ATOM	1132	OG1	THR	A	160	17.915	7.229	24.327	1.00	20.74	O
ATOM	1133	CG2	THR	A	160	18.425	8.781	22.681	1.00	18.67	C
ATOM	1134	N	ASP	A	161	16.518	9.561	25.235	1.00	21.59	N

FIG. 5S

ATOM	1135	CA	ASP	A	161	16.777	10.730	26.075	1.00	23.05	C
ATOM	1136	C	ASP	A	161	15.535	11.523	26.457	1.00	23.74	C
ATOM	1137	O	ASP	A	161	15.641	12.702	26.774	1.00	23.97	O
ATOM	1138	CB	ASP	A	161	17.813	11.658	25.436	1.00	23.33	C
ATOM	1139	CG	ASP	A	161	19.199	11.053	25.410	1.00	24.80	C
ATOM	1140	OD1	ASP	A	161	19.364	9.908	25.893	1.00	25.43	O
ATOM	1141	OD2	ASP	A	161	20.185	11.654	24.923	1.00	26.18	O
ATOM	1142	N	PHE	A	162	14.364	10.895	26.435	1.00	24.61	N
ATOM	1143	CA	PHE	A	162	13.202	11.552	27.008	1.00	26.22	C
ATOM	1144	C	PHE	A	162	13.470	11.808	28.495	1.00	27.55	C
ATOM	1145	O	PHE	A	162	13.898	10.899	29.220	1.00	27.82	O
ATOM	1146	CB	PHE	A	162	11.924	10.733	26.858	1.00	25.70	C
ATOM	1147	CG	PHE	A	162	10.799	11.272	27.677	1.00	26.29	C
ATOM	1148	CD1	PHE	A	162	10.144	12.440	27.288	1.00	26.33	C
ATOM	1149	CE1	PHE	A	162	9.126	12.973	28.053	1.00	26.57	C
ATOM	1150	CZ	PHE	A	162	8.756	12.339	29.240	1.00	27.93	C
ATOM	1151	CE2	PHE	A	162	9.414	11.179	29.644	1.00	27.04	C
ATOM	1152	CD2	PHE	A	162	10.431	10.655	28.865	1.00	26.37	C
ATOM	1153	N	GLY	A	163	13.232	13.044	28.933	1.00	28.52	N
ATOM	1154	CA	GLY	A	163	13.381	13.404	30.332	1.00	29.88	C
ATOM	1155	C	GLY	A	163	14.786	13.822	30.747	1.00	31.02	C
ATOM	1156	O	GLY	A	163	14.985	14.270	31.879	1.00	31.42	O
ATOM	1157	N	LEU	A	164	15.754	13.699	29.841	1.00	31.58	N
ATOM	1158	CA	LEU	A	164	17.139	14.054	30.144	1.00	32.81	C
ATOM	1159	C	LEU	A	164	17.390	15.572	30.253	1.00	33.77	C
ATOM	1160	O	LEU	A	164	18.513	16.042	30.050	1.00	34.62	O
ATOM	1161	CB	LEU	A	164	18.094	13.420	29.121	1.00	32.62	C
ATOM	1162	CG	LEU	A	164	19.010	12.275	29.568	1.00	33.16	C
ATOM	1163	CD1	LEU	A	164	20.130	12.049	28.556	1.00	32.69	C
ATOM	1164	CD2	LEU	A	164	19.594	12.488	30.964	1.00	32.89	C
ATOM	1165	N	ALA	A	165	16.341	16.337	30.549	1.00	34.73	N
ATOM	1166	CA	ALA	A	165	16.480	17.750	30.899	1.00	34.93	C
ATOM	1167	C	ALA	A	165	16.058	17.965	32.347	1.00	34.94	C
ATOM	1168	O	ALA	A	165	14.934	17.632	32.730	1.00	35.00	O
ATOM	1169	CB	ALA	A	165	15.649	18.626	29.964	1.00	34.93	C
ATOM	1170	N	VAL	A	182	20.301	25.244	23.844	1.00	34.28	N
ATOM	1171	CA	VAL	A	182	21.537	24.924	23.126	1.00	34.05	C
ATOM	1172	C	VAL	A	182	21.286	24.339	21.719	1.00	33.33	C
ATOM	1173	O	VAL	A	182	22.023	24.664	20.779	1.00	33.82	O
ATOM	1174	CB	VAL	A	182	22.482	24.006	23.964	1.00	34.30	C
ATOM	1175	CG1	VAL	A	182	23.807	23.759	23.235	1.00	34.94	C
ATOM	1176	CG2	VAL	A	182	22.763	24.622	25.327	1.00	34.84	C
ATOM	1177	N	PRO	A	183	20.272	23.480	21.566	1.00	32.37	N
ATOM	1178	CA	PRO	A	183	19.931	22.921	20.253	1.00	31.01	C
ATOM	1179	C	PRO	A	183	18.912	23.790	19.503	1.00	29.64	C
ATOM	1180	O	PRO	A	183	17.915	23.292	18.963	1.00	28.78	O
ATOM	1181	CB	PRO	A	183	19.328	21.570	20.619	1.00	31.41	C
ATOM	1182	CG	PRO	A	183	18.673	21.801	21.951	1.00	32.01	C
ATOM	1183	CD	PRO	A	183	19.394	22.934	22.620	1.00	32.31	C
ATOM	1184	N	ILE	A	184	19.208	25.085	19.459	1.00	27.89	N
ATOM	1185	CA	ILE	A	184	18.358	26.104	18.855	1.00	26.36	C
ATOM	1186	C	ILE	A	184	17.994	25.794	17.397	1.00	25.09	C
ATOM	1187	O	ILE	A	184	16.944	26.217	16.909	1.00	24.14	O
ATOM	1188	CB	ILE	A	184	19.042	27.508	19.028	1.00	26.74	C
ATOM	1189	CG1	ILE	A	184	18.573	28.161	20.335	1.00	27.39	C
ATOM	1190	CD1	ILE	A	184	19.678	28.809	21.158	1.00	28.47	C
ATOM	1191	CG2	ILE	A	184	18.802	28.430	17.828	1.00	25.89	C
ATOM	1192	N	LYS	A	185	18.847	25.031	16.718	1.00	23.81	N
ATOM	1193	CA	LYS	A	185	18.609	24.697	15.316	1.00	22.96	C
ATOM	1194	C	LYS	A	185	17.531	23.626	15.104	1.00	22.85	C

FIG. 5T

ATOM	1195	O	LYS	A	185	17.097	23.404	13.973	1.00	22.66	O
ATOM	1196	CB	LYS	A	185	19.919	24.338	14.609	1.00	22.77	C
ATOM	1197	CG	LYS	A	185	20.730	25.562	14.203	1.00	21.39	C
ATOM	1198	CD	LYS	A	185	22.182	25.206	13.920	1.00	20.35	C
ATOM	1199	CE	LYS	A	185	23.029	26.453	13.674	1.00	20.37	C
ATOM	1200	NZ	LYS	A	185	23.928	26.311	12.485	1.00	19.49	N
ATOM	1201	N	TRP	A	186	17.104	22.982	16.194	1.00	22.62	N
ATOM	1202	CA	TRP	A	186	16.002	22.010	16.185	1.00	22.33	C
ATOM	1203	C	TRP	A	186	14.740	22.555	16.866	1.00	22.97	C
ATOM	1204	O	TRP	A	186	13.693	21.899	16.876	1.00	23.08	O
ATOM	1205	CB	TRP	A	186	16.432	20.698	16.871	1.00	21.32	C
ATOM	1206	CG	TRP	A	186	17.310	19.853	16.016	1.00	19.73	C
ATOM	1207	CD1	TRP	A	186	16.942	18.750	15.303	1.00	19.03	C
ATOM	1208	NE1	TRP	A	186	18.020	18.249	14.611	1.00	18.84	N
ATOM	1209	CE2	TRP	A	186	19.120	19.028	14.872	1.00	18.48	C
ATOM	1210	CD2	TRP	A	186	18.708	20.055	15.749	1.00	18.88	C
ATOM	1211	CE3	TRP	A	186	19.661	20.997	16.174	1.00	18.93	C
ATOM	1212	CZ3	TRP	A	186	20.974	20.887	15.712	1.00	18.06	C
ATOM	1213	CH2	TRP	A	186	21.348	19.854	14.837	1.00	17.52	C
ATOM	1214	CZ2	TRP	A	186	20.438	18.918	14.405	1.00	18.20	C
ATOM	1215	N	MET	A	187	14.841	23.755	17.435	1.00	23.39	N
ATOM	1216	CA	MET	A	187	13.775	24.307	18.273	1.00	23.57	C
ATOM	1217	C	MET	A	187	12.724	25.075	17.483	1.00	23.43	C
ATOM	1218	O	MET	A	187	13.046	25.757	16.503	1.00	22.77	O
ATOM	1219	CB	MET	A	187	14.366	25.233	19.340	1.00	24.11	C
ATOM	1220	CG	MET	A	187	15.173	24.546	20.430	1.00	25.91	C
ATOM	1221	SD	MET	A	187	15.856	25.764	21.577	1.00	27.80	S
ATOM	1222	CE	MET	A	187	16.354	24.734	22.912	1.00	29.88	C
ATOM	1223	N	ALA	A	188	11.471	24.969	17.931	1.00	23.51	N
ATOM	1224	CA	ALA	A	188	10.369	25.768	17.397	1.00	23.42	C
ATOM	1225	C	ALA	A	188	10.548	27.224	17.782	1.00	23.86	C
ATOM	1226	O	ALA	A	188	11.052	27.529	18.867	1.00	23.74	O
ATOM	1227	CB	ALA	A	188	9.049	25.269	17.923	1.00	23.97	C
ATOM	1228	N	LEU	A	189	10.122	28.120	16.894	1.00	23.46	N
ATOM	1229	CA	LEU	A	189	10.252	29.556	17.116	1.00	23.33	C
ATOM	1230	C	LEU	A	189	9.754	30.012	18.503	1.00	22.77	C
ATOM	1231	O	LEU	A	189	10.386	30.845	19.145	1.00	22.70	O
ATOM	1232	CB	LEU	A	189	9.556	30.339	15.992	1.00	23.03	C
ATOM	1233	CG	LEU	A	189	9.810	31.850	16.017	1.00	24.06	C
ATOM	1234	CD1	LEU	A	189	11.118	32.210	15.327	1.00	24.21	C
ATOM	1235	CD2	LEU	A	189	8.640	32.618	15.412	1.00	24.58	C
ATOM	1236	N	GLU	A	190	8.628	29.464	18.956	1.00	22.39	N
ATOM	1237	CA	GLU	A	190	8.091	29.809	20.269	1.00	22.22	C
ATOM	1238	C	GLU	A	190	8.980	29.286	21.399	1.00	22.30	C
ATOM	1239	O	GLU	A	190	8.964	29.826	22.512	1.00	22.15	O
ATOM	1240	CB	GLU	A	190	6.655	29.299	20.424	1.00	22.28	C
ATOM	1241	CG	GLU	A	190	6.526	27.784	20.499	1.00	22.56	C
ATOM	1242	CD	GLU	A	190	6.208	27.132	19.168	1.00	21.94	C
ATOM	1243	OE1	GLU	A	190	5.625	26.035	19.195	1.00	23.30	O
ATOM	1244	OE2	GLU	A	190	6.543	27.692	18.103	1.00	21.29	O
ATOM	1245	N	SER	A	191	9.761	28.246	21.104	1.00	22.37	N
ATOM	1246	CA	SER	A	191	10.684	27.667	22.083	1.00	22.95	C
ATOM	1247	C	SER	A	191	11.905	28.549	22.255	1.00	23.25	C
ATOM	1248	O	SER	A	191	12.376	28.747	23.373	1.00	23.31	O
ATOM	1249	CB	SER	A	191	11.096	26.243	21.702	1.00	22.56	C
ATOM	1250	OG	SER	A	191	9.974	25.376	21.685	1.00	22.32	O
ATOM	1251	N	ILE	A	192	12.400	29.101	21.155	1.00	23.97	N
ATOM	1252	CA	ILE	A	192	13.561	29.980	21.230	1.00	25.49	C
ATOM	1253	C	ILE	A	192	13.206	31.314	21.882	1.00	25.96	C
ATOM	1254	O	ILE	A	192	13.903	31.756	22.796	1.00	26.30	O

FIG. 5U

ATOM	1255	CB	ILE	A	192	14.223	30.217	19.850	1.00	25.50	C
ATOM	1256	CG1	ILE	A	192	14.327	28.916	19.040	1.00	25.40	C
ATOM	1257	CD1	ILE	A	192	14.569	29.122	17.549	1.00	25.46	C
ATOM	1258	CG2	ILE	A	192	15.599	30.835	20.048	1.00	26.28	C
ATOM	1259	N	LEU	A	193	12.120	31.934	21.418	1.00	26.25	N
ATOM	1260	CA	LEU	A	193	11.747	33.278	21.863	1.00	26.69	C
ATOM	1261	C	LEU	A	193	11.138	33.323	23.260	1.00	26.63	C
ATOM	1262	O	LEU	A	193	11.355	34.288	23.986	1.00	27.00	O
ATOM	1263	CB	LEU	A	193	10.779	33.952	20.875	1.00	26.51	C
ATOM	1264	CG	LEU	A	193	11.204	34.213	19.431	1.00	27.25	C
ATOM	1265	CD1	LEU	A	193	9.986	34.570	18.592	1.00	27.23	C
ATOM	1266	CD2	LEU	A	193	12.269	35.301	19.333	1.00	27.77	C
ATOM	1267	N	HIS	A	194	10.370	32.296	23.624	1.00	26.80	N
ATOM	1268	CA	HIS	A	194	9.576	32.324	24.854	1.00	26.71	C
ATOM	1269	C	HIS	A	194	9.811	31.151	25.784	1.00	26.65	C
ATOM	1270	O	HIS	A	194	9.300	31.143	26.899	1.00	26.84	O
ATOM	1271	CB	HIS	A	194	8.080	32.403	24.534	1.00	27.00	C
ATOM	1272	CG	HIS	A	194	7.724	33.456	23.528	1.00	27.89	C
ATOM	1273	ND1	HIS	A	194	8.074	34.781	23.678	1.00	28.32	N
ATOM	1274	CE1	HIS	A	194	7.630	35.472	22.644	1.00	28.99	C
ATOM	1275	NE2	HIS	A	194	7.000	34.643	21.830	1.00	29.74	N
ATOM	1276	CD2	HIS	A	194	7.043	33.377	22.361	1.00	28.04	C
ATOM	1277	N	ARG	A	195	10.570	30.156	25.325	1.00	26.92	N
ATOM	1278	CA	ARG	A	195	10.780	28.912	26.082	1.00	26.59	C
ATOM	1279	C	ARG	A	195	9.465	28.151	26.370	1.00	26.41	C
ATOM	1280	O	ARG	A	195	9.324	27.488	27.402	1.00	26.41	O
ATOM	1281	CB	ARG	A	195	11.582	29.167	27.369	1.00	26.71	C
ATOM	1282	CG	ARG	A	195	12.960	29.777	27.136	1.00	26.74	C
ATOM	1283	CD	ARG	A	195	14.101	28.786	27.220	1.00	26.21	C
ATOM	1284	N	ILE	A	196	8.516	28.263	25.443	1.00	25.89	N
ATOM	1285	CA	ILE	A	196	7.310	27.439	25.441	1.00	25.99	C
ATOM	1286	C	ILE	A	196	7.605	26.110	24.723	1.00	25.37	C
ATOM	1287	O	ILE	A	196	8.162	26.098	23.619	1.00	25.06	O
ATOM	1288	CB	ILE	A	196	6.130	28.195	24.758	1.00	26.18	C
ATOM	1289	CG1	ILE	A	196	5.750	29.443	25.562	1.00	26.92	C
ATOM	1290	CD1	ILE	A	196	5.022	30.515	24.750	1.00	27.60	C
ATOM	1291	CG2	ILE	A	196	4.912	27.288	24.597	1.00	26.16	C
ATOM	1292	N	TYR	A	197	7.244	25.004	25.372	1.00	24.61	N
ATOM	1293	CA	TYR	A	197	7.393	23.667	24.812	1.00	24.00	C
ATOM	1294	C	TYR	A	197	6.072	22.926	24.894	1.00	23.38	C
ATOM	1295	O	TYR	A	197	5.534	22.721	25.972	1.00	23.52	O
ATOM	1296	CB	TYR	A	197	8.453	22.866	25.563	1.00	24.16	C
ATOM	1297	CG	TYR	A	197	9.860	23.378	25.400	1.00	24.86	C
ATOM	1298	CD1	TYR	A	197	10.683	22.891	24.391	1.00	24.84	C
ATOM	1299	CE1	TYR	A	197	11.980	23.354	24.239	1.00	24.86	C
ATOM	1300	CZ	TYR	A	197	12.465	24.311	25.102	1.00	25.63	C
ATOM	1301	OH	TYR	A	197	13.749	24.762	24.951	1.00	27.70	O
ATOM	1302	CE2	TYR	A	197	11.674	24.814	26.119	1.00	25.54	C
ATOM	1303	CD2	TYR	A	197	10.377	24.344	26.266	1.00	25.42	C
ATOM	1304	N	THR	A	198	5.551	22.536	23.739	1.00	22.68	N
ATOM	1305	CA	THR	A	198	4.330	21.748	23.661	1.00	21.60	C
ATOM	1306	C	THR	A	198	4.578	20.581	22.712	1.00	21.30	C
ATOM	1307	O	THR	A	198	5.687	20.424	22.190	1.00	20.65	O
ATOM	1308	CB	THR	A	198	3.183	22.600	23.103	1.00	21.35	C
ATOM	1309	OG1	THR	A	198	3.516	22.976	21.764	1.00	20.86	O
ATOM	1310	CG2	THR	A	198	3.059	23.934	23.844	1.00	20.48	C
ATOM	1311	N	HIS	A	199	3.544	19.778	22.468	1.00	20.37	N
ATOM	1312	CA	HIS	A	199	3.650	18.715	21.473	1.00	20.11	C
ATOM	1313	C	HIS	A	199	3.859	19.272	20.059	1.00	19.90	C
ATOM	1314	O	HIS	A	199	4.593	18.679	19.266	1.00	20.32	O

FIG. 5V

ATOM	1315	CB	HIS	A	199	2.433	17.793	21.522	1.00	19.71	C
ATOM	1316	CG	HIS	A	199	2.009	17.440	22.909	1.00	18.90	C
ATOM	1317	ND1	HIS	A	199	2.810	16.726	23.770	1.00	18.63	N
ATOM	1318	CE1	HIS	A	199	2.182	16.569	24.922	1.00	19.12	C
ATOM	1319	NE2	HIS	A	199	1.006	17.170	24.842	1.00	17.97	N
ATOM	1320	CD2	HIS	A	199	0.875	17.726	23.596	1.00	18.15	C
ATOM	1321	N	GLN	A	200	3.225	20.411	19.767	1.00	19.30	N
ATOM	1322	CA	GLN	A	200	3.398	21.125	18.496	1.00	18.44	C
ATOM	1323	C	GLN	A	200	4.818	21.653	18.323	1.00	18.49	C
ATOM	1324	O	GLN	A	200	5.323	21.756	17.203	1.00	18.42	O
ATOM	1325	CB	GLN	A	200	2.384	22.270	18.373	1.00	17.83	C
ATOM	1326	CG	GLN	A	200	0.929	21.809	18.182	1.00	16.67	C
ATOM	1327	CD	GLN	A	200	0.814	20.578	17.302	1.00	17.53	C
ATOM	1328	OE1	GLN	A	200	0.836	19.449	17.798	1.00	18.58	O
ATOM	1329	NE2	GLN	A	200	0.704	20.788	15.998	1.00	17.73	N
ATOM	1330	N	SER	A	201	5.451	21.985	19.443	1.00	18.47	N
ATOM	1331	CA	SER	A	201	6.865	22.338	19.471	1.00	19.01	C
ATOM	1332	C	SER	A	201	7.721	21.131	19.083	1.00	18.77	C
ATOM	1333	O	SER	A	201	8.684	21.263	18.321	1.00	19.46	O
ATOM	1334	CB	SER	A	201	7.250	22.835	20.859	1.00	19.02	C
ATOM	1335	OG	SER	A	201	8.541	23.382	20.837	1.00	21.15	O
ATOM	1336	N	ASP	A	202	7.358	19.958	19.600	1.00	18.15	N
ATOM	1337	CA	ASP	A	202	7.995	18.707	19.199	1.00	17.70	C
ATOM	1338	C	ASP	A	202	7.790	18.416	17.702	1.00	17.27	C
ATOM	1339	O	ASP	A	202	8.660	17.821	17.062	1.00	16.39	O
ATOM	1340	CB	ASP	A	202	7.491	17.536	20.060	1.00	17.82	C
ATOM	1341	CG	ASP	A	202	8.248	17.401	21.395	1.00	18.25	C
ATOM	1342	OD1	ASP	A	202	7.815	16.578	22.240	1.00	19.15	O
ATOM	1343	OD2	ASP	A	202	9.275	18.055	21.693	1.00	16.73	O
ATOM	1344	N	VAL	A	203	6.651	18.846	17.147	1.00	16.84	N
ATOM	1345	CA	VAL	A	203	6.355	18.615	15.729	1.00	17.10	C
ATOM	1346	C	VAL	A	203	7.367	19.329	14.828	1.00	17.03	C
ATOM	1347	O	VAL	A	203	7.834	18.760	13.833	1.00	17.52	O
ATOM	1348	CB	VAL	A	203	4.898	18.996	15.355	1.00	17.35	C
ATOM	1349	CG1	VAL	A	203	4.711	19.069	13.818	1.00	17.32	C
ATOM	1350	CG2	VAL	A	203	3.928	18.002	15.953	1.00	16.31	C
ATOM	1351	N	TRP	A	204	7.710	20.560	15.206	1.00	16.10	N
ATOM	1352	CA	TRP	A	204	8.753	21.336	14.557	1.00	15.91	C
ATOM	1353	C	TRP	A	204	10.102	20.608	14.569	1.00	15.34	C
ATOM	1354	O	TRP	A	204	10.788	20.536	13.545	1.00	14.63	O
ATOM	1355	CB	TRP	A	204	8.899	22.705	15.248	1.00	16.48	C
ATOM	1356	CG	TRP	A	204	9.950	23.584	14.629	1.00	17.32	C
ATOM	1357	CD1	TRP	A	204	11.291	23.318	14.510	1.00	18.24	C
ATOM	1358	NE1	TRP	A	204	11.929	24.357	13.876	1.00	17.48	N
ATOM	1359	CE2	TRP	A	204	11.005	25.327	13.584	1.00	19.12	C
ATOM	1360	CD2	TRP	A	204	9.749	24.869	14.042	1.00	18.39	C
ATOM	1361	CE3	TRP	A	204	8.633	25.699	13.871	1.00	17.73	C
ATOM	1362	CZ3	TRP	A	204	8.799	26.918	13.254	1.00	17.80	C
ATOM	1363	CH2	TRP	A	204	10.055	27.340	12.801	1.00	18.87	C
ATOM	1364	CZ2	TRP	A	204	11.167	26.566	12.953	1.00	19.46	C
ATOM	1365	N	SER	A	205	10.482	20.084	15.731	1.00	15.10	N
ATOM	1366	CA	SER	A	205	11.735	19.338	15.863	1.00	15.25	C
ATOM	1367	C	SER	A	205	11.733	18.081	14.991	1.00	14.79	C
ATOM	1368	O	SER	A	205	12.764	17.709	14.411	1.00	14.59	O
ATOM	1369	CB	SER	A	205	12.000	18.990	17.323	1.00	15.02	C
ATOM	1370	OG	SER	A	205	12.167	20.181	18.070	1.00	16.99	O
ATOM	1371	N	TYR	A	206	10.561	17.453	14.891	1.00	14.26	N
ATOM	1372	CA	TYR	A	206	10.366	16.298	14.025	1.00	13.63	C
ATOM	1373	C	TYR	A	206	10.655	16.661	12.566	1.00	13.14	C
ATOM	1374	O	TYR	A	206	11.369	15.924	11.874	1.00	13.08	O

FIG. 5W

ATOM	1375	CB	TYR	A	206	8.957	15.725	14.210	1.00	13.55	C
ATOM	1376	CG	TYR	A	206	8.588	14.665	13.214	1.00	13.29	C
ATOM	1377	CD1	TYR	A	206	7.982	14.999	11.993	1.00	12.45	C
ATOM	1378	CE1	TYR	A	206	7.651	14.014	11.072	1.00	14.04	C
ATOM	1379	CZ	TYR	A	206	7.920	12.674	11.378	1.00	13.69	C
ATOM	1380	OH	TYR	A	206	7.608	11.678	10.492	1.00	14.65	O
ATOM	1381	CE2	TYR	A	206	8.516	12.329	12.573	1.00	14.49	C
ATOM	1382	CD2	TYR	A	206	8.848	13.321	13.486	1.00	13.52	C
ATOM	1383	N	GLY	A	207	10.123	17.799	12.112	1.00	12.72	N
ATOM	1384	CA	GLY	A	207	10.437	18.342	10.795	1.00	12.45	C
ATOM	1385	C	GLY	A	207	11.934	18.458	10.495	1.00	13.29	C
ATOM	1386	O	GLY	A	207	12.395	18.056	9.422	1.00	13.01	O
ATOM	1387	N	VAL	A	208	12.699	19.001	11.441	1.00	13.39	N
ATOM	1388	CA	VAL	A	208	14.147	19.117	11.276	1.00	13.82	C
ATOM	1389	C	VAL	A	208	14.801	17.727	11.229	1.00	14.23	C
ATOM	1390	O	VAL	A	208	15.635	17.451	10.360	1.00	14.47	O
ATOM	1391	CB	VAL	A	208	14.790	20.011	12.373	1.00	13.67	C
ATOM	1392	CG1	VAL	A	208	16.292	20.150	12.144	1.00	13.84	C
ATOM	1393	CG2	VAL	A	208	14.128	21.388	12.397	1.00	12.06	C
ATOM	1394	N	THR	A	209	14.398	16.853	12.148	1.00	14.37	N
ATOM	1395	CA	THR	A	209	14.874	15.471	12.172	1.00	15.20	C
ATOM	1396	C	THR	A	209	14.654	14.774	10.824	1.00	15.26	C
ATOM	1397	O	THR	A	209	15.571	14.137	10.291	1.00	15.59	O
ATOM	1398	CB	THR	A	209	14.184	14.690	13.300	1.00	14.65	C
ATOM	1399	OG1	THR	A	209	14.427	15.358	14.542	1.00	16.24	O
ATOM	1400	CG2	THR	A	209	14.838	13.342	13.496	1.00	14.51	C
ATOM	1401	N	VAL	A	210	13.446	14.915	10.277	1.00	15.58	N
ATOM	1402	CA	VAL	A	210	13.112	14.346	8.973	1.00	15.63	C
ATOM	1403	C	VAL	A	210	14.022	14.933	7.898	1.00	15.81	C
ATOM	1404	O	VAL	A	210	14.568	14.196	7.073	1.00	16.62	O
ATOM	1405	CB	VAL	A	210	11.600	14.494	8.642	1.00	16.20	C
ATOM	1406	CG1	VAL	A	210	11.318	14.258	7.159	1.00	15.96	C
ATOM	1407	CG2	VAL	A	210	10.773	13.530	9.495	1.00	14.14	C
ATOM	1408	N	TRP	A	211	14.238	16.243	7.951	1.00	15.66	N
ATOM	1409	CA	TRP	A	211	15.185	16.902	7.045	1.00	15.68	C
ATOM	1410	C	TRP	A	211	16.596	16.293	7.128	1.00	15.43	C
ATOM	1411	O	TRP	A	211	17.213	16.045	6.090	1.00	14.91	O
ATOM	1412	CB	TRP	A	211	15.230	18.422	7.292	1.00	14.80	C
ATOM	1413	CG	TRP	A	211	16.078	19.158	6.320	1.00	14.08	C
ATOM	1414	CD1	TRP	A	211	15.693	19.656	5.108	1.00	13.94	C
ATOM	1415	NE1	TRP	A	211	16.754	20.281	4.492	1.00	15.12	N
ATOM	1416	CE2	TRP	A	211	17.859	20.187	5.295	1.00	15.19	C
ATOM	1417	CD2	TRP	A	211	17.470	19.486	6.463	1.00	15.80	C
ATOM	1418	CE3	TRP	A	211	18.436	19.253	7.458	1.00	15.56	C
ATOM	1419	CZ3	TRP	A	211	19.739	19.726	7.259	1.00	15.37	C
ATOM	1420	CH2	TRP	A	211	20.085	20.426	6.093	1.00	15.50	C
ATOM	1421	CZ2	TRP	A	211	19.165	20.660	5.097	1.00	16.49	C
ATOM	1422	N	GLU	A	212	17.089	16.063	8.352	1.00	15.91	N
ATOM	1423	CA	GLU	A	212	18.391	15.402	8.592	1.00	16.30	C
ATOM	1424	C	GLU	A	212	18.495	14.048	7.917	1.00	16.81	C
ATOM	1425	O	GLU	A	212	19.518	13.729	7.322	1.00	17.85	O
ATOM	1426	CB	GLU	A	212	18.656	15.191	10.087	1.00	16.54	C
ATOM	1427	CG	GLU	A	212	18.997	16.435	10.886	1.00	16.04	C
ATOM	1428	CD	GLU	A	212	19.317	16.104	12.334	1.00	16.27	C
ATOM	1429	OE1	GLU	A	212	20.504	15.909	12.641	1.00	16.31	O
ATOM	1430	OE2	GLU	A	212	18.381	16.039	13.168	1.00	16.78	O
ATOM	1431	N	LEU	A	213	17.444	13.241	8.030	1.00	17.14	N
ATOM	1432	CA	LEU	A	213	17.421	11.922	7.396	1.00	17.73	C
ATOM	1433	C	LEU	A	213	17.379	12.010	5.877	1.00	18.34	C
ATOM	1434	O	LEU	A	213	18.054	11.235	5.195	1.00	18.78	O

FIG. 5X

ATOM	1435	CB	LEU	A	213	16.228	11.093	7.888	1.00	17.19	C
ATOM	1436	CG	LEU	A	213	16.002	10.959	9.393	1.00	17.49	C
ATOM	1437	CD1	LEU	A	213	14.740	10.111	9.696	1.00	15.99	C
ATOM	1438	CD2	LEU	A	213	17.262	10.385	10.065	1.00	17.13	C
ATOM	1439	N	MET	A	214	16.576	12.944	5.359	1.00	18.90	N
ATOM	1440	CA	MET	A	214	16.388	13.109	3.917	1.00	19.52	C
ATOM	1441	C	MET	A	214	17.655	13.597	3.198	1.00	19.26	C
ATOM	1442	O	MET	A	214	17.820	13.352	2.007	1.00	19.42	O
ATOM	1443	CB	MET	A	214	15.214	14.048	3.615	1.00	19.99	C
ATOM	1444	CG	MET	A	214	13.822	13.488	3.928	1.00	21.85	C
ATOM	1445	SD	MET	A	214	13.590	11.766	3.421	1.00	25.97	S
ATOM	1446	CE	MET	A	214	11.901	11.510	3.898	1.00	25.02	C
ATOM	1447	N	THR	A	215	18.527	14.292	3.925	1.00	18.67	N
ATOM	1448	CA	THR	A	215	19.812	14.749	3.401	1.00	18.65	C
ATOM	1449	C	THR	A	215	20.957	13.818	3.805	1.00	19.03	C
ATOM	1450	O	THR	A	215	22.121	14.155	3.599	1.00	19.86	O
ATOM	1451	CB	THR	A	215	20.149	16.156	3.926	1.00	18.53	C
ATOM	1452	OG1	THR	A	215	20.177	16.134	5.364	1.00	19.23	O
ATOM	1453	CG2	THR	A	215	19.060	17.174	3.569	1.00	17.20	C
ATOM	1454	N	PHE	A	216	20.630	12.671	4.406	1.00	18.91	N
ATOM	1455	CA	PHE	A	216	21.627	11.707	4.892	1.00	18.62	C
ATOM	1456	C	PHE	A	216	22.591	12.302	5.921	1.00	18.49	C
ATOM	1457	O	PHE	A	216	23.773	11.938	5.968	1.00	18.09	O
ATOM	1458	CB	PHE	A	216	22.400	11.063	3.730	1.00	18.90	C
ATOM	1459	CG	PHE	A	216	21.525	10.372	2.723	1.00	19.02	C
ATOM	1460	CD1	PHE	A	216	21.113	9.060	2.925	1.00	19.29	C
ATOM	1461	CE1	PHE	A	216	20.306	8.419	2.001	1.00	19.46	C
ATOM	1462	CZ	PHE	A	216	19.900	9.094	0.848	1.00	19.99	C
ATOM	1463	CE2	PHE	A	216	20.300	10.407	0.637	1.00	19.88	C
ATOM	1464	CD2	PHE	A	216	21.114	11.036	1.570	1.00	19.88	C
ATOM	1465	N	GLY	A	217	22.079	13.230	6.731	1.00	18.54	N
ATOM	1466	CA	GLY	A	217	22.787	13.715	7.902	1.00	18.62	C
ATOM	1467	C	GLY	A	217	23.525	15.031	7.759	1.00	19.01	C
ATOM	1468	O	GLY	A	217	24.528	15.250	8.441	1.00	19.29	O
ATOM	1469	N	SER	A	218	23.035	15.897	6.873	1.00	19.27	N
ATOM	1470	CA	SER	A	218	23.532	17.259	6.755	1.00	19.49	C
ATOM	1471	C	SER	A	218	23.151	18.031	8.008	1.00	20.23	C
ATOM	1472	O	SER	A	218	22.185	17.677	8.705	1.00	19.99	O
ATOM	1473	CB	SER	A	218	22.954	17.947	5.520	1.00	19.54	C
ATOM	1474	OG	SER	A	218	23.303	17.248	4.335	1.00	20.51	O
ATOM	1475	N	LYS	A	219	23.920	19.078	8.293	1.00	20.46	N
ATOM	1476	CA	LYS	A	219	23.733	19.870	9.493	1.00	21.27	C
ATOM	1477	C	LYS	A	219	22.820	21.039	9.185	1.00	21.76	C
ATOM	1478	O	LYS	A	219	23.096	21.822	8.274	1.00	22.17	O
ATOM	1479	CB	LYS	A	219	25.077	20.373	10.012	1.00	21.65	C
ATOM	1480	CG	LYS	A	219	26.084	19.274	10.319	1.00	22.85	C
ATOM	1481	CD	LYS	A	219	27.035	19.710	11.427	1.00	25.41	C
ATOM	1482	CE	LYS	A	219	28.454	19.776	10.919	1.00	26.27	C
ATOM	1483	NZ	LYS	A	219	29.083	18.421	11.009	1.00	28.06	N
ATOM	1484	N	PRO	A	220	21.735	21.159	9.946	1.00	22.25	N
ATOM	1485	CA	PRO	A	220	20.718	22.182	9.694	1.00	22.20	C
ATOM	1486	C	PRO	A	220	21.304	23.584	9.813	1.00	22.73	C
ATOM	1487	O	PRO	A	220	21.984	23.868	10.794	1.00	22.13	O
ATOM	1488	CB	PRO	A	220	19.698	21.941	10.808	1.00	22.46	C
ATOM	1489	CG	PRO	A	220	19.934	20.546	11.250	1.00	22.59	C
ATOM	1490	CD	PRO	A	220	21.413	20.332	11.126	1.00	22.16	C
ATOM	1491	N	TYR	A	221	21.043	24.433	8.817	1.00	23.20	N
ATOM	1492	CA	TYR	A	221	21.544	25.811	8.789	1.00	23.78	C
ATOM	1493	C	TYR	A	221	23.060	25.894	9.010	1.00	24.48	C
ATOM	1494	O	TYR	A	221	23.537	26.744	9.759	1.00	24.27	O

FIG. 5Y

ATOM	1495	CB	TYR	A	221	20.808	26.691	9.815	1.00	23.69	C
ATOM	1496	CG	TYR	A	221	19.322	26.416	9.985	1.00	23.37	C
ATOM	1497	CD1	TYR	A	221	18.375	27.068	9.197	1.00	22.54	C
ATOM	1498	CE1	TYR	A	221	17.011	26.833	9.365	1.00	22.37	C
ATOM	1499	CZ	TYR	A	221	16.586	25.939	10.332	1.00	22.50	C
ATOM	1500	OH	TYR	A	221	15.246	25.698	10.502	1.00	23.84	O
ATOM	1501	CE2	TYR	A	221	17.501	25.275	11.128	1.00	22.72	C
ATOM	1502	CD2	TYR	A	221	18.864	25.526	10.962	1.00	23.51	C
ATOM	1503	N	ASP	A	222	23.799	24.983	8.380	1.00	25.44	N
ATOM	1504	CA	ASP	A	222	25.260	24.994	8.396	1.00	26.85	C
ATOM	1505	C	ASP	A	222	25.785	26.354	7.931	1.00	27.42	C
ATOM	1506	O	ASP	A	222	25.450	26.801	6.836	1.00	27.17	O
ATOM	1507	CB	ASP	A	222	25.791	23.887	7.475	1.00	27.21	C
ATOM	1508	CG	ASP	A	222	27.180	23.390	7.870	1.00	28.40	C
ATOM	1509	OD1	ASP	A	222	27.587	23.591	9.032	1.00	28.08	O
ATOM	1510	OD2	ASP	A	222	27.929	22.771	7.077	1.00	29.38	O
ATOM	1511	N	GLY	A	223	26.584	27.012	8.772	1.00	28.11	N
ATOM	1512	CA	GLY	A	223	27.174	28.298	8.429	1.00	28.87	C
ATOM	1513	C	GLY	A	223	26.514	29.498	9.088	1.00	29.68	C
ATOM	1514	O	GLY	A	223	27.079	30.589	9.109	1.00	30.14	O
ATOM	1515	N	ILE	A	224	25.318	29.301	9.631	1.00	29.85	N
ATOM	1516	CA	ILE	A	224	24.608	30.369	10.316	1.00	30.14	C
ATOM	1517	C	ILE	A	224	24.776	30.225	11.828	1.00	30.76	C
ATOM	1518	O	ILE	A	224	24.560	29.142	12.375	1.00	30.59	O
ATOM	1519	CB	ILE	A	224	23.121	30.366	9.919	1.00	30.03	C
ATOM	1520	CG1	ILE	A	224	22.990	30.407	8.396	1.00	29.96	C
ATOM	1521	CD1	ILE	A	224	21.940	29.488	7.860	1.00	30.12	C
ATOM	1522	CG2	ILE	A	224	22.371	31.541	10.556	1.00	28.97	C
ATOM	1523	N	PRO	A	225	25.174	31.311	12.498	1.00	31.26	N
ATOM	1524	CA	PRO	A	225	25.301	31.308	13.956	1.00	31.31	C
ATOM	1525	C	PRO	A	225	23.954	30.999	14.600	1.00	31.43	C
ATOM	1526	O	PRO	A	225	22.914	31.427	14.089	1.00	31.28	O
ATOM	1527	CB	PRO	A	225	25.732	32.749	14.271	1.00	31.36	C
ATOM	1528	CG	PRO	A	225	26.346	33.247	13.016	1.00	31.12	C
ATOM	1529	CD	PRO	A	225	25.534	32.626	11.924	1.00	31.41	C
ATOM	1530	N	ALA	A	226	23.978	30.246	15.694	1.00	31.44	N
ATOM	1531	CA	ALA	A	226	22.773	29.953	16.454	1.00	32.22	C
ATOM	1532	C	ALA	A	226	21.982	31.231	16.778	1.00	32.62	C
ATOM	1533	O	ALA	A	226	20.746	31.218	16.796	1.00	32.15	O
ATOM	1534	CB	ALA	A	226	23.124	29.197	17.731	1.00	32.17	C
ATOM	1535	N	SER	A	227	22.709	32.330	17.001	1.00	32.90	N
ATOM	1536	CA	SER	A	227	22.118	33.608	17.404	1.00	33.47	C
ATOM	1537	C	SER	A	227	21.211	34.246	16.351	1.00	33.52	C
ATOM	1538	O	SER	A	227	20.327	35.037	16.691	1.00	33.90	O
ATOM	1539	CB	SER	A	227	23.218	34.600	17.793	1.00	33.94	C
ATOM	1540	OG	SER	A	227	23.896	35.093	16.644	1.00	35.00	O
ATOM	1541	N	GLU	A	228	21.438	33.906	15.083	1.00	33.28	N
ATOM	1542	CA	GLU	A	228	20.717	34.510	13.969	1.00	33.05	C
ATOM	1543	C	GLU	A	228	19.559	33.634	13.472	1.00	33.32	C
ATOM	1544	O	GLU	A	228	18.856	33.990	12.520	1.00	32.92	O
ATOM	1545	CB	GLU	A	228	21.691	34.804	12.825	1.00	33.17	C
ATOM	1546	N	ILE	A	229	19.355	32.495	14.131	1.00	33.41	N
ATOM	1547	CA	ILE	A	229	18.378	31.510	13.674	1.00	33.24	C
ATOM	1548	C	ILE	A	229	16.953	32.045	13.808	1.00	33.41	C
ATOM	1549	O	ILE	A	229	16.162	31.983	12.858	1.00	33.36	O
ATOM	1550	CB	ILE	A	229	18.577	30.149	14.409	1.00	32.76	C
ATOM	1551	CG1	ILE	A	229	19.919	29.510	14.020	1.00	32.35	C
ATOM	1552	CD1	ILE	A	229	20.036	29.085	12.545	1.00	31.27	C
ATOM	1553	CG2	ILE	A	229	17.421	29.189	14.132	1.00	32.57	C
ATOM	1554	N	SER	A	230	16.646	32.590	14.981	1.00	33.39	N

FIG. 5Z



ATOM	1555	CA	SER	A	230	15.353	33.210	15.239	1.00	33.74	C
ATOM	1556	C	SER	A	230	14.995	34.265	14.181	1.00	33.34	C
ATOM	1557	O	SER	A	230	13.848	34.326	13.711	1.00	33.30	O
ATOM	1558	CB	SER	A	230	15.340	33.828	16.635	1.00	33.54	C
ATOM	1559	OG	SER	A	230	14.191	34.630	16.803	1.00	35.77	O
ATOM	1560	N	SER	A	231	15.984	35.073	13.807	1.00	32.79	N
ATOM	1561	CA	SER	A	231	15.806	36.133	12.816	1.00	32.99	C
ATOM	1562	C	SER	A	231	15.484	35.593	11.411	1.00	32.68	C
ATOM	1563	O	SER	A	231	14.515	36.043	10.785	1.00	32.87	O
ATOM	1564	CB	SER	A	231	17.022	37.078	12.814	1.00	33.23	C
ATOM	1565	OG	SER	A	231	17.413	37.472	11.507	1.00	34.42	O
ATOM	1566	N	ILE	A	232	16.262	34.625	10.924	1.00	31.98	N
ATOM	1567	CA	ILE	A	232	15.977	34.042	9.608	1.00	32.09	C
ATOM	1568	C	ILE	A	232	14.602	33.354	9.545	1.00	31.80	C
ATOM	1569	O	ILE	A	232	13.931	33.399	8.510	1.00	31.72	O
ATOM	1570	CB	ILE	A	232	17.141	33.128	9.064	1.00	32.38	C
ATOM	1571	CG1	ILE	A	232	17.234	31.796	9.809	1.00	32.87	C
ATOM	1572	CD1	ILE	A	232	17.895	30.699	8.996	1.00	33.81	C
ATOM	1573	CG2	ILE	A	232	18.494	33.869	9.078	1.00	32.45	C
ATOM	1574	N	LEU	A	233	14.179	32.745	10.653	1.00	31.10	N
ATOM	1575	CA	LEU	A	233	12.895	32.045	10.697	1.00	30.98	C
ATOM	1576	C	LEU	A	233	11.705	33.011	10.636	1.00	31.26	C
ATOM	1577	O	LEU	A	233	10.732	32.762	9.920	1.00	30.66	O
ATOM	1578	CB	LEU	A	233	12.806	31.130	11.926	1.00	30.75	C
ATOM	1579	CG	LEU	A	233	13.704	29.883	11.901	1.00	30.29	C
ATOM	1580	CD1	LEU	A	233	13.834	29.273	13.289	1.00	29.86	C
ATOM	1581	CD2	LEU	A	233	13.189	28.862	10.899	1.00	29.92	C
ATOM	1582	N	GLU	A	234	11.803	34.111	11.381	1.00	31.82	N
ATOM	1583	CA	GLU	A	234	10.809	35.187	11.338	1.00	32.74	C
ATOM	1584	C	GLU	A	234	10.742	35.851	9.954	1.00	32.56	C
ATOM	1585	O	GLU	A	234	9.675	36.292	9.525	1.00	32.91	O
ATOM	1586	CB	GLU	A	234	11.073	36.223	12.441	1.00	32.88	C
ATOM	1587	CG	GLU	A	234	10.691	35.744	13.834	1.00	34.72	C
ATOM	1588	CD	GLU	A	234	11.373	36.523	14.953	1.00	38.13	C
ATOM	1589	OE1	GLU	A	234	12.628	36.605	14.970	1.00	38.06	O
ATOM	1590	OE2	GLU	A	234	10.647	37.048	15.836	1.00	38.86	O
ATOM	1591	N	LYS	A	235	11.875	35.890	9.255	1.00	32.60	N
ATOM	1592	CA	LYS	A	235	11.921	36.369	7.870	1.00	32.94	C
ATOM	1593	C	LYS	A	235	11.333	35.363	6.871	1.00	32.49	C
ATOM	1594	O	LYS	A	235	11.252	35.650	5.677	1.00	32.95	O
ATOM	1595	CB	LYS	A	235	13.361	36.698	7.460	1.00	33.46	C
ATOM	1596	CG	LYS	A	235	13.792	38.128	7.731	1.00	34.18	C
ATOM	1597	CD	LYS	A	235	15.036	38.161	8.614	1.00	35.32	C
ATOM	1598	CE	LYS	A	235	16.255	38.639	7.853	1.00	35.91	C
ATOM	1599	NZ	LYS	A	235	17.515	38.319	8.588	1.00	36.74	N
ATOM	1600	N	GLY	A	236	10.953	34.182	7.352	1.00	31.86	N
ATOM	1601	CA	GLY	A	236	10.312	33.174	6.521	1.00	30.53	C
ATOM	1602	C	GLY	A	236	11.255	32.178	5.862	1.00	29.96	C
ATOM	1603	O	GLY	A	236	10.830	31.393	5.007	1.00	30.10	O
ATOM	1604	N	GLU	A	237	12.528	32.206	6.249	1.00	28.50	N
ATOM	1605	CA	GLU	A	237	13.507	31.259	5.727	1.00	27.83	C
ATOM	1606	C	GLU	A	237	13.347	29.887	6.375	1.00	26.58	C
ATOM	1607	O	GLU	A	237	13.135	29.776	7.590	1.00	26.31	O
ATOM	1608	CB	GLU	A	237	14.933	31.750	5.966	1.00	28.59	C
ATOM	1609	CG	GLU	A	237	15.260	33.126	5.406	1.00	30.58	C
ATOM	1610	CD	GLU	A	237	16.732	33.256	5.089	1.00	32.61	C
ATOM	1611	OE1	GLU	A	237	17.209	32.465	4.243	1.00	34.70	O
ATOM	1612	OE2	GLU	A	237	17.414	34.118	5.690	1.00	32.10	O
ATOM	1613	N	ARG	A	238	13.460	28.850	5.555	1.00	24.84	N
ATOM	1614	CA	ARG	A	238	13.410	27.476	6.034	1.00	23.97	C

FIG. 5AA

ATOM	1615	C	ARG	A	238	14.554	26.674	5.420	1.00	23.40	C
ATOM	1616	O	ARG	A	238	15.214	27.139	4.500	1.00	23.59	O
ATOM	1617	CB	ARG	A	238	12.057	26.829	5.697	1.00	23.36	C
ATOM	1618	CG	ARG	A	238	10.844	27.460	6.369	1.00	22.61	C
ATOM	1619	CD	ARG	A	238	10.880	27.434	7.889	1.00	22.28	C
ATOM	1620	NE	ARG	A	238	9.650	27.959	8.479	1.00	21.42	N
ATOM	1621	CZ	ARG	A	238	9.473	29.212	8.887	1.00	21.46	C
ATOM	1622	NH1	ARG	A	238	10.452	30.115	8.775	1.00	19.78	N
ATOM	1623	NH2	ARG	A	238	8.307	29.561	9.422	1.00	20.88	N
ATOM	1624	N	LEU	A	239	14.788	25.477	5.951	1.00	23.06	N
ATOM	1625	CA	LEU	A	239	15.751	24.538	5.388	1.00	22.31	C
ATOM	1626	C	LEU	A	239	15.342	24.162	3.963	1.00	22.27	C
ATOM	1627	O	LEU	A	239	14.165	23.902	3.711	1.00	22.74	O
ATOM	1628	CB	LEU	A	239	15.829	23.278	6.264	1.00	21.98	C
ATOM	1629	CG	LEU	A	239	16.383	23.461	7.679	1.00	20.93	C
ATOM	1630	CD1	LEU	A	239	15.787	22.448	8.656	1.00	17.59	C
ATOM	1631	CD2	LEU	A	239	17.905	23.381	7.661	1.00	20.45	C
ATOM	1632	N	PRO	A	240	16.300	24.144	3.036	1.00	22.36	N
ATOM	1633	CA	PRO	A	240	16.015	23.875	1.614	1.00	22.32	C
ATOM	1634	C	PRO	A	240	15.571	22.436	1.315	1.00	22.70	C
ATOM	1635	O	PRO	A	240	15.832	21.539	2.113	1.00	23.10	O
ATOM	1636	CB	PRO	A	240	17.360	24.140	0.939	1.00	21.99	C
ATOM	1637	CG	PRO	A	240	18.369	23.919	2.015	1.00	22.25	C
ATOM	1638	CD	PRO	A	240	17.734	24.394	3.278	1.00	22.24	C
ATOM	1639	N	GLN	A	241	14.935	22.229	0.164	1.00	22.58	N
ATOM	1640	CA	GLN	A	241	14.434	20.919	-0.221	1.00	23.36	C
ATOM	1641	C	GLN	A	241	15.578	19.939	-0.504	1.00	23.53	C
ATOM	1642	O	GLN	A	241	16.468	20.228	-1.300	1.00	23.49	O
ATOM	1643	CB	GLN	A	241	13.514	21.027	-1.439	1.00	23.35	C
ATOM	1644	CG	GLN	A	241	12.769	19.740	-1.769	1.00	25.02	C
ATOM	1645	CD	GLN	A	241	11.791	19.886	-2.924	1.00	26.48	C
ATOM	1646	OE1	GLN	A	241	11.402	20.996	-3.278	1.00	27.61	O
ATOM	1647	NE2	GLN	A	241	11.388	18.762	-3.508	1.00	27.11	N
ATOM	1648	N	PRO	A	242	15.567	18.794	0.169	1.00	23.73	N
ATOM	1649	CA	PRO	A	242	16.552	17.747	-0.104	1.00	23.94	C
ATOM	1650	C	PRO	A	242	16.316	17.155	-1.494	1.00	23.79	C
ATOM	1651	O	PRO	A	242	15.167	16.913	-1.859	1.00	23.48	O
ATOM	1652	CB	PRO	A	242	16.282	16.718	0.997	1.00	23.82	C
ATOM	1653	CG	PRO	A	242	15.553	17.498	2.038	1.00	24.29	C
ATOM	1654	CD	PRO	A	242	14.648	18.411	1.257	1.00	23.74	C
ATOM	1655	N	PRO	A	243	17.393	16.974	-2.256	1.00	23.85	N
ATOM	1656	CA	PRO	A	243	17.339	16.405	-3.615	1.00	24.02	C
ATOM	1657	C	PRO	A	243	16.460	15.166	-3.792	1.00	23.91	C
ATOM	1658	O	PRO	A	243	15.828	15.050	-4.833	1.00	24.44	O
ATOM	1659	CB	PRO	A	243	18.808	16.063	-3.903	1.00	23.96	C
ATOM	1660	CG	PRO	A	243	19.573	17.090	-3.133	1.00	23.87	C
ATOM	1661	CD	PRO	A	243	18.766	17.361	-1.876	1.00	23.68	C
ATOM	1662	N	ILE	A	244	16.412	14.265	-2.817	1.00	24.05	N
ATOM	1663	CA	ILE	A	244	15.612	13.038	-2.956	1.00	24.12	C
ATOM	1664	C	ILE	A	244	14.105	13.238	-2.743	1.00	24.71	C
ATOM	1665	O	ILE	A	244	13.318	12.339	-3.043	1.00	24.49	O
ATOM	1666	CB	ILE	A	244	16.141	11.891	-2.029	1.00	23.86	C
ATOM	1667	CG1	ILE	A	244	16.078	12.297	-0.554	1.00	23.91	C
ATOM	1668	CD1	ILE	A	244	15.788	11.139	0.386	1.00	25.03	C
ATOM	1669	CG2	ILE	A	244	17.561	11.446	-2.445	1.00	22.93	C
ATOM	1670	N	CYS	A	245	13.710	14.407	-2.231	1.00	25.35	N
ATOM	1671	CA	CYS	A	245	12.336	14.634	-1.768	1.00	26.36	C
ATOM	1672	C	CYS	A	245	11.408	15.120	-2.867	1.00	26.04	C
ATOM	1673	O	CYS	A	245	11.696	16.123	-3.512	1.00	26.37	O
ATOM	1674	CB	CYS	A	245	12.316	15.675	-0.643	1.00	26.68	C

FIG. 5BB

ATOM	1675	SG	CYS	A	245	12.891	15.079	0.956	1.00	29.71	S
ATOM	1676	N	THR	A	246	10.286	14.430	-3.065	1.00	25.97	N
ATOM	1677	CA	THR	A	246	9.234	14.961	-3.930	1.00	26.41	C
ATOM	1678	C	THR	A	246	8.598	16.163	-3.259	1.00	26.53	C
ATOM	1679	O	THR	A	246	8.764	16.379	-2.049	1.00	26.34	O
ATOM	1680	CB	THR	A	246	8.146	13.917	-4.252	1.00	26.72	C
ATOM	1681	OG1	THR	A	246	7.689	13.291	-3.043	1.00	27.60	O
ATOM	1682	CG2	THR	A	246	8.716	12.776	-5.097	1.00	26.65	C
ATOM	1683	N	ILE	A	247	7.867	16.948	-4.047	1.00	26.79	N
ATOM	1684	CA	ILE	A	247	7.208	18.146	-3.539	1.00	26.43	C
ATOM	1685	C	ILE	A	247	6.324	17.803	-2.339	1.00	26.30	C
ATOM	1686	O	ILE	A	247	6.293	18.547	-1.366	1.00	26.86	O
ATOM	1687	CB	ILE	A	247	6.419	18.864	-4.668	1.00	26.87	C
ATOM	1688	CG1	ILE	A	247	6.049	20.293	-4.248	1.00	26.78	C
ATOM	1689	CG2	ILE	A	247	5.185	18.056	-5.098	1.00	26.73	C
ATOM	1690	N	ASP	A	248	5.652	16.653	-2.403	1.00	25.73	N
ATOM	1691	CA	ASP	A	248	4.764	16.192	-1.344	1.00	25.42	C
ATOM	1692	C	ASP	A	248	5.463	16.044	0.012	1.00	25.11	C
ATOM	1693	O	ASP	A	248	4.939	16.510	1.034	1.00	25.20	O
ATOM	1694	CB	ASP	A	248	4.107	14.873	-1.743	1.00	26.14	C
ATOM	1695	CG	ASP	A	248	3.328	14.978	-3.053	1.00	27.68	C
ATOM	1696	OD1	ASP	A	248	3.959	14.972	-4.136	1.00	28.63	O
ATOM	1697	OD2	ASP	A	248	2.085	15.070	-3.095	1.00	27.81	O
ATOM	1698	N	VAL	A	249	6.634	15.402	0.013	1.00	23.56	N
ATOM	1699	CA	VAL	A	249	7.411	15.176	1.241	1.00	22.27	C
ATOM	1700	C	VAL	A	249	7.865	16.503	1.852	1.00	21.34	C
ATOM	1701	O	VAL	A	249	7.631	16.755	3.033	1.00	20.14	O
ATOM	1702	CB	VAL	A	249	8.615	14.206	1.002	1.00	22.04	C
ATOM	1703	CG1	VAL	A	249	9.521	14.159	2.203	1.00	21.97	C
ATOM	1704	CG2	VAL	A	249	8.111	12.801	0.705	1.00	21.72	C
ATOM	1705	N	TYR	A	250	8.472	17.359	1.029	1.00	21.08	N
ATOM	1706	CA	TYR	A	250	8.893	18.688	1.466	1.00	21.47	C
ATOM	1707	C	TYR	A	250	7.743	19.557	2.004	1.00	21.79	C
ATOM	1708	O	TYR	A	250	7.948	20.326	2.948	1.00	21.21	O
ATOM	1709	CB	TYR	A	250	9.648	19.431	0.352	1.00	21.05	C
ATOM	1710	CG	TYR	A	250	10.332	20.706	0.821	1.00	20.50	C
ATOM	1711	CD1	TYR	A	250	10.005	21.949	0.257	1.00	20.75	C
ATOM	1712	CE1	TYR	A	250	10.624	23.123	0.679	1.00	19.33	C
ATOM	1713	CZ	TYR	A	250	11.577	23.061	1.677	1.00	20.22	C
ATOM	1714	OH	TYR	A	250	12.188	24.212	2.103	1.00	20.81	O
ATOM	1715	CE2	TYR	A	250	11.922	21.840	2.257	1.00	20.09	C
ATOM	1716	CD2	TYR	A	250	11.294	20.676	1.830	1.00	19.31	C
ATOM	1717	N	MET	A	251	6.550	19.434	1.409	1.00	22.18	N
ATOM	1718	CA	MET	A	251	5.381	20.195	1.866	1.00	23.03	C
ATOM	1719	C	MET	A	251	5.039	19.834	3.308	1.00	22.94	C
ATOM	1720	O	MET	A	251	4.781	20.721	4.123	1.00	22.97	O
ATOM	1721	CB	MET	A	251	4.162	20.010	0.946	1.00	23.69	C
ATOM	1722	CG	MET	A	251	4.350	20.535	-0.480	1.00	26.38	C
ATOM	1723	SD	MET	A	251	3.173	21.801	-1.043	1.00	31.94	S
ATOM	1724	CE	MET	A	251	4.311	23.007	-1.795	1.00	29.59	C
ATOM	1725	N	ILE	A	252	5.075	18.538	3.625	1.00	22.98	N
ATOM	1726	CA	ILE	A	252	4.890	18.075	5.004	1.00	23.33	C
ATOM	1727	C	ILE	A	252	5.924	18.672	5.960	1.00	22.47	C
ATOM	1728	O	ILE	A	252	5.572	19.117	7.047	1.00	22.57	O
ATOM	1729	CB	ILE	A	252	4.890	16.525	5.083	1.00	23.89	C
ATOM	1730	CG1	ILE	A	252	3.682	15.957	4.333	1.00	24.47	C
ATOM	1731	CD1	ILE	A	252	3.784	14.480	4.037	1.00	26.22	C
ATOM	1732	CG2	ILE	A	252	4.868	16.065	6.534	1.00	24.02	C
ATOM	1733	N	MET	A	253	7.188	18.693	5.545	1.00	22.24	N
ATOM	1734	CA	MET	A	253	8.258	19.315	6.340	1.00	22.01	C

FIG. 5CC

ATOM	1735	C	MET	A	253	8.011	20.803	6.558	1.00	20.97	C
ATOM	1736	O	MET	A	253	8.200	21.312	7.654	1.00	20.96	O
ATOM	1737	CB	MET	A	253	9.619	19.148	5.665	1.00	22.41	C
ATOM	1738	CG	MET	A	253	10.166	17.732	5.624	1.00	23.98	C
ATOM	1739	SD	MET	A	253	11.819	17.718	4.863	1.00	25.73	S
ATOM	1740	CE	MET	A	253	11.523	16.543	3.614	1.00	24.41	C
ATOM	1741	N	VAL	A	254	7.613	21.499	5.498	1.00	20.48	N
ATOM	1742	CA	VAL	A	254	7.333	22.938	5.576	1.00	19.92	C
ATOM	1743	C	VAL	A	254	6.183	23.200	6.554	1.00	19.02	C
ATOM	1744	O	VAL	A	254	6.271	24.094	7.396	1.00	17.82	O
ATOM	1745	CB	VAL	A	254	7.070	23.554	4.163	1.00	19.97	C
ATOM	1746	CG1	VAL	A	254	6.283	24.861	4.246	1.00	20.08	C
ATOM	1747	CG2	VAL	A	254	8.384	23.795	3.455	1.00	20.32	C
ATOM	1748	N	LYS	A	255	5.130	22.389	6.451	1.00	18.68	N
ATOM	1749	CA	LYS	A	255	4.010	22.435	7.393	1.00	18.62	C
ATOM	1750	C	LYS	A	255	4.456	22.338	8.862	1.00	18.01	C
ATOM	1751	O	LYS	A	255	3.885	22.995	9.717	1.00	16.95	O
ATOM	1752	CB	LYS	A	255	2.987	21.333	7.084	1.00	18.90	C
ATOM	1753	CG	LYS	A	255	2.148	21.558	5.825	1.00	20.18	C
ATOM	1754	N	CYS	A	256	5.470	21.519	9.144	1.00	17.79	N
ATOM	1755	CA	CYS	A	256	5.976	21.362	10.508	1.00	18.81	C
ATOM	1756	C	CYS	A	256	6.630	22.638	11.057	1.00	19.25	C
ATOM	1757	O	CYS	A	256	6.810	22.775	12.270	1.00	19.01	O
ATOM	1758	CB	CYS	A	256	6.969	20.195	10.598	1.00	18.67	C
ATOM	1759	SG	CYS	A	256	6.260	18.549	10.306	1.00	19.41	S
ATOM	1760	N	TRP	A	257	6.981	23.559	10.159	1.00	19.82	N
ATOM	1761	CA	TRP	A	257	7.705	24.779	10.516	1.00	20.64	C
ATOM	1762	C	TRP	A	257	6.875	26.066	10.373	1.00	21.80	C
ATOM	1763	O	TRP	A	257	7.437	27.155	10.237	1.00	22.16	O
ATOM	1764	CB	TRP	A	257	8.997	24.909	9.696	1.00	19.37	C
ATOM	1765	CG	TRP	A	257	9.918	23.732	9.765	1.00	18.88	C
ATOM	1766	CD1	TRP	A	257	10.209	22.974	10.866	1.00	18.24	C
ATOM	1767	NE1	TRP	A	257	11.100	21.983	10.536	1.00	18.05	N
ATOM	1768	CE2	TRP	A	257	11.399	22.077	9.202	1.00	18.42	C
ATOM	1769	CD2	TRP	A	257	10.678	23.174	8.685	1.00	18.49	C
ATOM	1770	CE3	TRP	A	257	10.815	23.482	7.323	1.00	18.38	C
ATOM	1771	CZ3	TRP	A	257	11.661	22.703	6.537	1.00	18.42	C
ATOM	1772	CH2	TRP	A	257	12.370	21.623	7.087	1.00	18.16	C
ATOM	1773	CZ2	TRP	A	257	12.251	21.295	8.412	1.00	18.72	C
ATOM	1774	N	MET	A	258	5.551	25.944	10.391	1.00	23.26	N
ATOM	1775	CA	MET	A	258	4.673	27.118	10.460	1.00	24.83	C
ATOM	1776	C	MET	A	258	4.920	27.857	11.768	1.00	25.27	C
ATOM	1777	O	MET	A	258	5.149	27.225	12.815	1.00	25.71	O
ATOM	1778	CB	MET	A	258	3.200	26.719	10.411	1.00	25.26	C
ATOM	1779	CG	MET	A	258	2.860	25.612	9.441	1.00	27.53	C
ATOM	1780	SD	MET	A	258	2.500	26.199	7.794	1.00	31.59	S
ATOM	1781	CE	MET	A	258	0.844	26.895	8.011	1.00	30.46	C
ATOM	1782	N	ILE	A	259	4.880	29.187	11.708	1.00	25.59	N
ATOM	1783	CA	ILE	A	259	4.985	30.022	12.906	1.00	25.77	C
ATOM	1784	C	ILE	A	259	3.831	29.718	13.858	1.00	25.67	C
ATOM	1785	O	ILE	A	259	4.033	29.623	15.060	1.00	26.34	O
ATOM	1786	CB	ILE	A	259	4.979	31.533	12.545	1.00	26.09	C
ATOM	1787	CG1	ILE	A	259	5.994	31.854	11.439	1.00	26.19	C
ATOM	1788	CD1	ILE	A	259	7.412	32.100	11.901	1.00	27.92	C
ATOM	1789	CG2	ILE	A	259	5.183	32.391	13.798	1.00	26.48	C
ATOM	1790	N	ASP	A	260	2.625	29.581	13.310	1.00	25.91	N
ATOM	1791	CA	ASP	A	260	1.438	29.220	14.085	1.00	26.00	C
ATOM	1792	C	ASP	A	260	1.470	27.726	14.433	1.00	25.77	C
ATOM	1793	O	ASP	A	260	1.267	26.868	13.567	1.00	25.19	O
ATOM	1794	CB	ASP	A	260	0.176	29.570	13.288	1.00	26.40	C

FIG. 5DD

ATOM	1795	CG	ASP	A	260	-1.109	29.266	14.041	1.00	27.75	C
ATOM	1796	OD1	ASP	A	260	-1.144	29.388	15.282	1.00	30.06	O
ATOM	1797	OD2	ASP	A	260	-2.154	28.909	13.464	1.00	29.15	O
ATOM	1798	N	ALA	A	261	1.734	27.431	15.704	1.00	25.81	N
ATOM	1799	CA	ALA	A	261	1.924	26.058	16.187	1.00	25.67	C
ATOM	1800	C	ALA	A	261	0.717	25.161	15.937	1.00	26.09	C
ATOM	1801	O	ALA	A	261	0.865	23.971	15.666	1.00	26.38	O
ATOM	1802	CB	ALA	A	261	2.286	26.066	17.665	1.00	25.12	C
ATOM	1803	N	ASP	A	262	-0.474	25.746	16.019	1.00	26.76	N
ATOM	1804	CA	ASP	A	262	-1.721	25.028	15.794	1.00	27.09	C
ATOM	1805	C	ASP	A	262	-1.980	24.677	14.334	1.00	26.53	C
ATOM	1806	O	ASP	A	262	-2.850	23.854	14.040	1.00	25.86	O
ATOM	1807	CB	ASP	A	262	-2.903	25.837	16.341	1.00	28.40	C
ATOM	1808	CG	ASP	A	262	-3.212	25.496	17.780	1.00	29.96	C
ATOM	1809	OD1	ASP	A	262	-3.772	24.403	18.031	1.00	31.76	O
ATOM	1810	OD2	ASP	A	262	-2.916	26.251	18.724	1.00	31.29	O
ATOM	1811	N	SER	A	263	-1.247	25.304	13.417	1.00	25.76	N
ATOM	1812	CA	SER	A	263	-1.411	24.967	12.006	1.00	25.84	C
ATOM	1813	C	SER	A	263	-0.391	23.924	11.519	1.00	24.48	C
ATOM	1814	O	SER	A	263	-0.395	23.545	10.353	1.00	24.57	O
ATOM	1815	CB	SER	A	263	-1.425	26.221	11.122	1.00	25.90	C
ATOM	1816	OG	SER	A	263	-0.113	26.698	10.925	1.00	29.08	O
ATOM	1817	N	ARG	A	264	0.472	23.468	12.424	1.00	23.19	N
ATOM	1818	CA	ARG	A	264	1.396	22.378	12.136	1.00	21.98	C
ATOM	1819	C	ARG	A	264	0.633	21.051	12.218	1.00	21.72	C
ATOM	1820	O	ARG	A	264	-0.353	20.943	12.961	1.00	21.71	O
ATOM	1821	CB	ARG	A	264	2.543	22.369	13.147	1.00	21.66	C
ATOM	1822	CG	ARG	A	264	3.498	23.553	13.058	1.00	20.71	C
ATOM	1823	CD	ARG	A	264	4.437	23.688	14.270	1.00	19.74	C
ATOM	1824	NE	ARG	A	264	4.875	25.072	14.446	1.00	19.73	N
ATOM	1825	CZ	ARG	A	264	5.352	25.592	15.574	1.00	19.18	C
ATOM	1826	NH1	ARG	A	264	5.699	26.871	15.596	1.00	17.68	N
ATOM	1827	NH2	ARG	A	264	5.488	24.850	16.674	1.00	16.00	N
ATOM	1828	N	PRO	A	265	1.072	20.042	11.468	1.00	21.06	N
ATOM	1829	CA	PRO	A	265	0.467	18.705	11.556	1.00	20.80	C
ATOM	1830	C	PRO	A	265	0.490	18.155	12.974	1.00	20.48	C
ATOM	1831	O	PRO	A	265	1.320	18.563	13.778	1.00	21.30	O
ATOM	1832	CB	PRO	A	265	1.379	17.847	10.680	1.00	20.71	C
ATOM	1833	CG	PRO	A	265	2.031	18.810	9.737	1.00	21.16	C
ATOM	1834	CD	PRO	A	265	2.173	20.093	10.487	1.00	21.05	C
ATOM	1835	N	LYS	A	266	-0.424	17.245	13.275	1.00	20.19	N
ATOM	1836	CA	LYS	A	266	-0.376	16.493	14.512	1.00	20.12	C
ATOM	1837	C	LYS	A	266	0.402	15.225	14.248	1.00	19.65	C
ATOM	1838	O	LYS	A	266	0.420	14.734	13.108	1.00	20.28	O
ATOM	1839	CB	LYS	A	266	-1.788	16.142	14.987	1.00	20.90	C
ATOM	1840	CG	LYS	A	266	-2.651	17.353	15.392	1.00	22.35	C
ATOM	1841	CD	LYS	A	266	-2.036	18.159	16.531	1.00	24.13	C
ATOM	1842	CE	LYS	A	266	-2.159	17.420	17.871	1.00	25.87	C
ATOM	1843	NZ	LYS	A	266	-1.152	17.916	18.880	1.00	27.42	N
ATOM	1844	N	PHE	A	267	1.042	14.688	15.283	1.00	18.25	N
ATOM	1845	CA	PHE	A	267	1.741	13.410	15.148	1.00	17.73	C
ATOM	1846	C	PHE	A	267	0.828	12.287	14.621	1.00	17.91	C
ATOM	1847	O	PHE	A	267	1.235	11.539	13.739	1.00	18.09	O
ATOM	1848	CB	PHE	A	267	2.474	13.018	16.448	1.00	16.62	C
ATOM	1849	CG	PHE	A	267	3.757	13.786	16.675	1.00	14.86	C
ATOM	1850	CD1	PHE	A	267	4.807	13.717	15.754	1.00	14.57	C
ATOM	1851	CE1	PHE	A	267	5.998	14.424	15.956	1.00	13.52	C
ATOM	1852	CZ	PHE	A	267	6.137	15.226	17.097	1.00	13.45	C
ATOM	1853	CE2	PHE	A	267	5.092	15.295	18.021	1.00	13.45	C
ATOM	1854	CD2	PHE	A	267	3.916	14.581	17.806	1.00	13.41	C

FIG. SEE

ATOM	1855	N	ARG	A	268	-0.404	12.196	15.123	1.00	18.54	N
ATOM	1856	CA	ARG	A	268	-1.369	11.209	14.618	1.00	19.41	C
ATOM	1857	C	ARG	A	268	-1.572	11.333	13.107	1.00	20.26	C
ATOM	1858	O	ARG	A	268	-1.692	10.321	12.411	1.00	20.90	O
ATOM	1859	CB	ARG	A	268	-2.717	11.319	15.335	1.00	18.84	C
ATOM	1860	N	GLU	A	269	-1.597	12.576	12.620	1.00	20.30	N
ATOM	1861	CA	GLU	A	269	-1.732	12.878	11.199	1.00	20.68	C
ATOM	1862	C	GLU	A	269	-0.485	12.454	10.423	1.00	20.10	C
ATOM	1863	O	GLU	A	269	-0.593	11.797	9.390	1.00	20.32	O
ATOM	1864	CB	GLU	A	269	-2.010	14.373	10.988	1.00	20.61	C
ATOM	1865	CG	GLU	A	269	-3.489	14.737	10.996	1.00	23.22	C
ATOM	1866	CD	GLU	A	269	-3.814	16.047	11.720	1.00	26.05	C
ATOM	1867	OE1	GLU	A	269	-3.074	17.057	11.576	1.00	24.55	O
ATOM	1868	OE2	GLU	A	269	-4.852	16.072	12.430	1.00	27.97	O
ATOM	1869	N	LEU	A	270	0.691	12.825	10.936	1.00	19.58	N
ATOM	1870	CA	LEU	A	270	1.980	12.437	10.350	1.00	18.51	C
ATOM	1871	C	LEU	A	270	2.174	10.910	10.284	1.00	18.07	C
ATOM	1872	O	LEU	A	270	2.736	10.387	9.309	1.00	17.45	O
ATOM	1873	CB	LEU	A	270	3.143	13.090	11.107	1.00	18.03	C
ATOM	1874	CG	LEU	A	270	3.213	14.623	11.076	1.00	18.05	C
ATOM	1875	CD1	LEU	A	270	4.173	15.150	12.143	1.00	17.10	C
ATOM	1876	CD2	LEU	A	270	3.627	15.121	9.698	1.00	16.86	C
ATOM	1877	N	ILE	A	271	1.709	10.201	11.310	1.00	17.28	N
ATOM	1878	CA	ILE	A	271	1.689	8.741	11.247	1.00	17.15	C
ATOM	1879	C	ILE	A	271	0.950	8.304	9.981	1.00	17.61	C
ATOM	1880	O	ILE	A	271	1.530	7.618	9.146	1.00	18.33	O
ATOM	1881	CB	ILE	A	271	1.048	8.110	12.502	1.00	16.19	C
ATOM	1882	CG1	ILE	A	271	1.932	8.323	13.735	1.00	15.11	C
ATOM	1883	CD1	ILE	A	271	1.247	7.991	15.067	1.00	14.36	C
ATOM	1884	CG2	ILE	A	271	0.805	6.627	12.279	1.00	15.98	C
ATOM	1885	N	ILE	A	272	-0.303	8.738	9.830	1.00	17.87	N
ATOM	1886	CA	ILE	A	272	-1.154	8.344	8.700	1.00	18.15	C
ATOM	1887	C	ILE	A	272	-0.525	8.716	7.355	1.00	18.72	C
ATOM	1888	O	ILE	A	272	-0.428	7.872	6.455	1.00	18.78	O
ATOM	1889	CB	ILE	A	272	-2.581	8.980	8.837	1.00	18.38	C
ATOM	1890	CG1	ILE	A	272	-3.384	8.283	9.938	1.00	17.29	C
ATOM	1891	CD1	ILE	A	272	-4.382	9.213	10.642	1.00	17.41	C
ATOM	1892	CG2	ILE	A	272	-3.352	8.972	7.488	1.00	17.05	C
ATOM	1893	N	GLU	A	273	-0.085	9.970	7.244	1.00	19.24	N
ATOM	1894	CA	GLU	A	273	0.481	10.511	6.007	1.00	19.84	C
ATOM	1895	C	GLU	A	273	1.727	9.768	5.547	1.00	20.65	C
ATOM	1896	O	GLU	A	273	1.804	9.342	4.395	1.00	21.30	O
ATOM	1897	CB	GLU	A	273	0.799	11.999	6.166	1.00	19.57	C
ATOM	1898	N	PHE	A	274	2.701	9.621	6.448	1.00	20.98	N
ATOM	1899	CA	PHE	A	274	3.950	8.946	6.125	1.00	21.08	C
ATOM	1900	C	PHE	A	274	3.741	7.445	5.886	1.00	21.17	C
ATOM	1901	O	PHE	A	274	4.391	6.854	5.023	1.00	20.52	O
ATOM	1902	CB	PHE	A	274	5.008	9.207	7.204	1.00	21.30	C
ATOM	1903	CG	PHE	A	274	5.849	10.425	6.941	1.00	21.25	C
ATOM	1904	CD1	PHE	A	274	6.830	10.409	5.953	1.00	22.11	C
ATOM	1905	CE1	PHE	A	274	7.614	11.549	5.702	1.00	22.74	C
ATOM	1906	CZ	PHE	A	274	7.414	12.713	6.455	1.00	21.83	C
ATOM	1907	CE2	PHE	A	274	6.433	12.731	7.443	1.00	22.09	C
ATOM	1908	CD2	PHE	A	274	5.660	11.591	7.680	1.00	21.68	C
ATOM	1909	N	SER	A	275	2.819	6.840	6.634	1.00	21.59	N
ATOM	1910	CA	SER	A	275	2.429	5.452	6.383	1.00	22.53	C
ATOM	1911	C	SER	A	275	1.900	5.240	4.960	1.00	23.05	C
ATOM	1912	O	SER	A	275	2.218	4.238	4.324	1.00	22.60	O
ATOM	1913	CB	SER	A	275	1.398	4.983	7.399	1.00	22.33	C
ATOM	1914	OG	SER	A	275	1.943	5.020	8.701	1.00	23.66	O

FIG. 5FF

ATOM	1915	N	LYS	A	276	1.107	6.188	4.462	1.00	24.02	N
ATOM	1916	CA	LYS	A	276	0.613	6.119	3.087	1.00	25.17	C
ATOM	1917	C	LYS	A	276	1.784	6.110	2.101	1.00	25.09	C
ATOM	1918	O	LYS	A	276	1.780	5.346	1.134	1.00	25.11	O
ATOM	1919	CB	LYS	A	276	-0.336	7.284	2.792	1.00	25.75	C
ATOM	1920	CG	LYS	A	276	-0.946	7.283	1.386	1.00	27.13	C
ATOM	1921	CD	LYS	A	276	-0.582	8.558	0.621	1.00	29.40	C
ATOM	1922	CE	LYS	A	276	-1.405	9.754	1.092	1.00	30.40	C
ATOM	1923	NZ	LYS	A	276	-0.533	10.932	1.363	1.00	31.80	N
ATOM	1924	N	MET	A	277	2.781	6.951	2.373	1.00	25.24	N
ATOM	1925	CA	MET	A	277	3.975	7.070	1.534	1.00	25.11	C
ATOM	1926	C	MET	A	277	4.883	5.849	1.642	1.00	25.40	C
ATOM	1927	O	MET	A	277	5.548	5.474	0.667	1.00	25.24	O
ATOM	1928	CB	MET	A	277	4.771	8.333	1.879	1.00	24.94	C
ATOM	1929	CG	MET	A	277	3.996	9.631	1.753	1.00	24.31	C
ATOM	1930	SD	MET	A	277	5.040	11.099	2.009	1.00	25.21	S
ATOM	1931	CE	MET	A	277	4.133	12.291	1.083	1.00	25.13	C
ATOM	1932	N	ALA	A	278	4.910	5.239	2.829	1.00	25.57	N
ATOM	1933	CA	ALA	A	278	5.694	4.033	3.067	1.00	25.99	C
ATOM	1934	C	ALA	A	278	5.179	2.838	2.265	1.00	26.79	C
ATOM	1935	O	ALA	A	278	5.951	1.934	1.947	1.00	26.85	O
ATOM	1936	CB	ALA	A	278	5.742	3.706	4.545	1.00	25.47	C
ATOM	1937	N	ARG	A	279	3.884	2.843	1.941	1.00	27.59	N
ATOM	1938	CA	ARG	A	279	3.272	1.799	1.111	1.00	28.44	C
ATOM	1939	C	ARG	A	279	3.629	1.943	-0.368	1.00	28.80	C
ATOM	1940	O	ARG	A	279	3.400	1.019	-1.153	1.00	29.24	O
ATOM	1941	CB	ARG	A	279	1.746	1.769	1.272	1.00	28.76	C
ATOM	1942	CG	ARG	A	279	1.252	1.473	2.687	1.00	29.96	C
ATOM	1943	CD	ARG	A	279	-0.248	1.207	2.804	1.00	31.28	C
ATOM	1944	NE	ARG	A	279	-1.066	2.265	2.211	1.00	34.42	N
ATOM	1945	CZ	ARG	A	279	-1.756	3.187	2.898	1.00	35.78	C
ATOM	1946	NH1	ARG	A	279	-1.732	3.212	4.226	1.00	34.45	N
ATOM	1947	NH2	ARG	A	279	-2.475	4.096	2.242	1.00	36.50	N
ATOM	1948	N	ASP	A	280	4.182	3.099	-0.739	1.00	29.28	N
ATOM	1949	CA	ASP	A	280	4.622	3.365	-2.114	1.00	29.54	C
ATOM	1950	C	ASP	A	280	5.878	4.253	-2.119	1.00	29.35	C
ATOM	1951	O	ASP	A	280	5.847	5.391	-2.592	1.00	29.52	O
ATOM	1952	CB	ASP	A	280	3.481	4.016	-2.907	1.00	29.96	C
ATOM	1953	CG	ASP	A	280	3.700	3.981	-4.416	1.00	30.61	C
ATOM	1954	OD1	ASP	A	280	4.746	3.480	-4.894	1.00	30.49	O
ATOM	1955	OD2	ASP	A	280	2.856	4.450	-5.207	1.00	32.11	O
ATOM	1956	N	PRO	A	281	6.989	3.711	-1.617	1.00	29.24	N
ATOM	1957	CA	PRO	A	281	8.175	4.509	-1.297	1.00	29.16	C
ATOM	1958	C	PRO	A	281	8.817	5.190	-2.492	1.00	29.07	C
ATOM	1959	O	PRO	A	281	9.286	6.323	-2.366	1.00	28.00	O
ATOM	1960	CB	PRO	A	281	9.148	3.477	-0.716	1.00	29.37	C
ATOM	1961	CG	PRO	A	281	8.337	2.280	-0.416	1.00	29.42	C
ATOM	1962	CD	PRO	A	281	7.204	2.279	-1.354	1.00	29.24	C
ATOM	1963	N	GLN	A	282	8.843	4.493	-3.625	1.00	29.78	N
ATOM	1964	CA	GLN	A	282	9.511	4.974	-4.834	1.00	29.92	C
ATOM	1965	C	GLN	A	282	8.811	6.179	-5.466	1.00	29.29	C
ATOM	1966	O	GLN	A	282	9.434	6.936	-6.197	1.00	28.92	O
ATOM	1967	CB	GLN	A	282	9.659	3.837	-5.849	1.00	30.56	C
ATOM	1968	CG	GLN	A	282	11.059	3.235	-5.900	1.00	31.99	C
ATOM	1969	CD	GLN	A	282	11.053	1.715	-6.003	1.00	34.14	C
ATOM	1970	OE1	GLN	A	282	11.116	1.164	-7.102	1.00	35.63	O
ATOM	1971	NE2	GLN	A	282	10.987	1.036	-4.860	1.00	34.80	N
ATOM	1972	N	ARG	A	283	7.525	6.356	-5.168	1.00	29.25	N
ATOM	1973	CA	ARG	A	283	6.763	7.507	-5.662	1.00	29.58	C
ATOM	1974	C	ARG	A	283	7.077	8.807	-4.909	1.00	28.96	C

FIG. 5GG

ATOM	1975	O	ARG	A	283	7.076	9.881	-5.509	1.00	29.15	O
ATOM	1976	CB	ARG	A	283	5.258	7.230	-5.606	1.00	29.98	C
ATOM	1977	CG	ARG	A	283	4.430	8.195	-6.444	1.00	32.26	C
ATOM	1978	CD	ARG	A	283	3.384	8.975	-5.660	1.00	34.13	C
ATOM	1979	NE	ARG	A	283	3.796	10.356	-5.409	1.00	35.93	N
ATOM	1980	CZ	ARG	A	283	2.967	11.396	-5.359	1.00	36.56	C
ATOM	1981	NH1	ARG	A	283	1.670	11.239	-5.556	1.00	36.76	N
ATOM	1982	NH2	ARG	A	283	3.437	12.607	-5.106	1.00	37.04	N
ATOM	1983	N	TYR	A	284	7.344	8.702	-3.606	1.00	27.79	N
ATOM	1984	CA	TYR	A	284	7.514	9.875	-2.749	1.00	27.02	C
ATOM	1985	C	TYR	A	284	8.971	10.266	-2.482	1.00	26.98	C
ATOM	1986	O	TYR	A	284	9.260	11.419	-2.142	1.00	26.11	O
ATOM	1987	CB	TYR	A	284	6.758	9.671	-1.440	1.00	26.57	C
ATOM	1988	CG	TYR	A	284	5.270	9.556	-1.656	1.00	25.92	C
ATOM	1989	CD1	TYR	A	284	4.636	8.310	-1.667	1.00	24.81	C
ATOM	1990	CE1	TYR	A	284	3.262	8.215	-1.884	1.00	25.01	C
ATOM	1991	CZ	TYR	A	284	2.520	9.372	-2.101	1.00	24.76	C
ATOM	1992	OH	TYR	A	284	1.159	9.308	-2.310	1.00	25.67	O
ATOM	1993	CE2	TYR	A	284	3.133	10.603	-2.099	1.00	24.30	C
ATOM	1994	CD2	TYR	A	284	4.498	10.691	-1.886	1.00	24.65	C
ATOM	1995	N	LEU	A	285	9.876	9.302	-2.628	1.00	26.74	N
ATOM	1996	CA	LEU	A	285	11.307	9.567	-2.515	1.00	27.31	C
ATOM	1997	C	LEU	A	285	12.023	9.088	-3.774	1.00	27.61	C
ATOM	1998	O	LEU	A	285	11.777	7.976	-4.250	1.00	27.39	O
ATOM	1999	CB	LEU	A	285	11.892	8.893	-1.270	1.00	26.80	C
ATOM	2000	CG	LEU	A	285	11.533	9.451	0.113	1.00	26.75	C
ATOM	2001	CD1	LEU	A	285	12.421	8.819	1.176	1.00	26.78	C
ATOM	2002	CD2	LEU	A	285	11.627	10.978	0.181	1.00	25.02	C
ATOM	2003	N	VAL	A	286	12.896	9.934	-4.310	1.00	28.04	N
ATOM	2004	CA	VAL	A	286	13.595	9.620	-5.549	1.00	29.26	C
ATOM	2005	C	VAL	A	286	15.069	9.306	-5.299	1.00	30.07	C
ATOM	2006	O	VAL	A	286	15.892	10.204	-5.082	1.00	30.22	O
ATOM	2007	CB	VAL	A	286	13.420	10.736	-6.613	1.00	29.27	C
ATOM	2008	CG1	VAL	A	286	14.239	10.434	-7.857	1.00	28.88	C
ATOM	2009	CG2	VAL	A	286	11.951	10.894	-6.976	1.00	29.23	C
ATOM	2010	N	ILE	A	287	15.384	8.016	-5.325	1.00	30.87	N
ATOM	2011	CA	ILE	A	287	16.755	7.548	-5.133	1.00	31.43	C
ATOM	2012	C	ILE	A	287	17.191	6.719	-6.343	1.00	31.78	C
ATOM	2013	O	ILE	A	287	16.435	5.870	-6.823	1.00	31.94	O
ATOM	2014	CB	ILE	A	287	16.884	6.749	-3.807	1.00	31.42	C
ATOM	2015	CG1	ILE	A	287	16.253	7.541	-2.649	1.00	30.94	C
ATOM	2016	CD1	ILE	A	287	16.107	6.775	-1.365	1.00	29.79	C
ATOM	2017	CG2	ILE	A	287	18.353	6.431	-3.505	1.00	31.01	C
ATOM	2018	N	GLN	A	288	18.408	6.983	-6.819	1.00	32.08	N
ATOM	2019	CA	GLN	A	288	18.957	6.392	-8.051	1.00	32.44	C
ATOM	2020	C	GLN	A	288	18.962	4.859	-8.093	1.00	32.12	C
ATOM	2021	O	GLN	A	288	19.237	4.188	-7.097	1.00	32.37	O
ATOM	2022	CB	GLN	A	288	20.373	6.931	-8.316	1.00	31.90	C
TER	2023		GLN	A	288						
ATOM	2024	N	LEU	B	9	35.809	-0.280	55.500	1.00	36.51	N
ATOM	2025	CA	LEU	B	9	35.250	-0.239	54.114	1.00	36.16	C
ATOM	2026	C	LEU	B	9	33.732	-0.044	54.098	1.00	36.07	C
ATOM	2027	O	LEU	B	9	33.007	-0.581	54.941	1.00	35.35	O
ATOM	2028	CB	LEU	B	9	35.628	-1.501	53.337	1.00	36.62	C
ATOM	2029	N	LEU	B	10	33.273	0.715	53.107	1.00	36.08	N
ATOM	2030	CA	LEU	B	10	31.879	1.117	52.984	1.00	35.93	C
ATOM	2031	C	LEU	B	10	31.140	0.283	51.947	1.00	36.33	C
ATOM	2032	O	LEU	B	10	31.656	0.005	50.864	1.00	36.38	O
ATOM	2033	CB	LEU	B	10	31.811	2.599	52.609	1.00	35.82	C
ATOM	2034	CG	LEU	B	10	30.467	3.253	52.289	1.00	35.50	C

FIG. 5HH



ATOM	2035	CD1	LEU	B	10	29.675	3.532	53.564	1.00	35.76	C
ATOM	2036	CD2	LEU	B	10	30.701	4.528	51.499	1.00	34.70	C
ATOM	2037	N	ARG	B	11	29.919	-0.108	52.287	1.00	36.51	N
ATOM	2038	CA	ARG	B	11	29.059	-0.811	51.351	1.00	36.75	C
ATOM	2039	C	ARG	B	11	27.953	0.131	50.896	1.00	36.14	C
ATOM	2040	O	ARG	B	11	27.163	0.603	51.708	1.00	36.07	O
ATOM	2041	CB	ARG	B	11	28.467	-2.073	51.992	1.00	37.08	C
ATOM	2042	CG	ARG	B	11	29.452	-2.903	52.795	1.00	38.59	C
ATOM	2043	CD	ARG	B	11	28.870	-4.190	53.348	1.00	41.84	C
ATOM	2044	NE	ARG	B	11	29.877	-5.244	53.464	1.00	44.46	N
ATOM	2045	CZ	ARG	B	11	29.658	-6.537	53.223	1.00	46.07	C
ATOM	2046	NH1	ARG	B	11	28.456	-6.961	52.843	1.00	46.10	N
ATOM	2047	NH2	ARG	B	11	30.649	-7.412	53.360	1.00	46.50	N
ATOM	2048	N	ILE	B	12	27.922	0.430	49.602	1.00	35.95	N
ATOM	2049	CA	ILE	B	12	26.826	1.201	49.036	1.00	35.61	C
ATOM	2050	C	ILE	B	12	25.685	0.231	48.791	1.00	35.35	C
ATOM	2051	O	ILE	B	12	25.714	-0.538	47.836	1.00	36.12	O
ATOM	2052	CB	ILE	B	12	27.246	1.940	47.743	1.00	35.75	C
ATOM	2053	CG1	ILE	B	12	28.487	2.803	47.995	1.00	36.13	C
ATOM	2054	CD1	ILE	B	12	29.037	3.479	46.741	1.00	38.25	C
ATOM	2055	CG2	ILE	B	12	26.094	2.809	47.223	1.00	35.27	C
ATOM	2056	N	LEU	B	13	24.692	0.278	49.677	1.00	34.69	N
ATOM	2057	CA	LEU	B	13	23.610	-0.701	49.741	1.00	33.89	C
ATOM	2058	C	LEU	B	13	22.453	-0.394	48.790	1.00	33.60	C
ATOM	2059	O	LEU	B	13	22.276	0.743	48.354	1.00	33.47	O
ATOM	2060	CB	LEU	B	13	23.077	-0.775	51.179	1.00	33.85	C
ATOM	2061	CG	LEU	B	13	23.550	-1.878	52.134	1.00	33.47	C
ATOM	2062	CD1	LEU	B	13	25.057	-1.965	52.215	1.00	31.89	C
ATOM	2063	CD2	LEU	B	13	22.967	-1.656	53.522	1.00	32.68	C
ATOM	2064	N	LYS	B	14	21.668	-1.427	48.497	1.00	33.25	N
ATOM	2065	CA	LYS	B	14	20.450	-1.323	47.696	1.00	32.95	C
ATOM	2066	C	LYS	B	14	19.238	-1.477	48.624	1.00	32.91	C
ATOM	2067	O	LYS	B	14	19.256	-2.299	49.545	1.00	32.35	O
ATOM	2068	CB	LYS	B	14	20.464	-2.429	46.639	1.00	33.21	C
ATOM	2069	CG	LYS	B	14	19.397	-2.350	45.580	1.00	32.70	C
ATOM	2070	CD	LYS	B	14	19.748	-3.275	44.422	1.00	33.95	C
ATOM	2071	CE	LYS	B	14	18.985	-4.589	44.473	1.00	33.74	C
ATOM	2072	NZ	LYS	B	14	18.828	-5.165	43.115	1.00	34.37	N
ATOM	2073	N	GLU	B	15	18.181	-0.702	48.373	1.00	32.75	N
ATOM	2074	CA	GLU	B	15	17.049	-0.613	49.310	1.00	32.78	C
ATOM	2075	C	GLU	B	15	16.366	-1.930	49.675	1.00	32.45	C
ATOM	2076	O	GLU	B	15	15.819	-2.058	50.766	1.00	32.62	O
ATOM	2077	CB	GLU	B	15	16.016	0.424	48.852	1.00	32.78	C
ATOM	2078	CG	GLU	B	15	15.217	0.045	47.614	1.00	33.77	C
ATOM	2079	CD	GLU	B	15	14.304	1.162	47.147	1.00	34.04	C
ATOM	2080	OE1	GLU	B	15	14.271	2.215	47.812	1.00	34.14	O
ATOM	2081	OE2	GLU	B	15	13.615	0.983	46.117	1.00	35.01	O
ATOM	2082	N	THR	B	16	16.412	-2.906	48.775	1.00	32.21	N
ATOM	2083	CA	THR	B	16	15.783	-4.206	49.009	1.00	32.16	C
ATOM	2084	C	THR	B	16	16.674	-5.170	49.805	1.00	32.09	C
ATOM	2085	O	THR	B	16	16.320	-6.336	49.997	1.00	32.44	O
ATOM	2086	CB	THR	B	16	15.371	-4.852	47.667	1.00	32.32	C
ATOM	2087	OG1	THR	B	16	16.395	-4.622	46.688	1.00	32.60	O
ATOM	2088	CG2	THR	B	16	14.151	-4.147	47.078	1.00	31.88	C
ATOM	2089	N	GLU	B	17	17.824	-4.687	50.265	1.00	31.84	N
ATOM	2090	CA	GLU	B	17	18.741	-5.514	51.047	1.00	32.14	C
ATOM	2091	C	GLU	B	17	18.494	-5.362	52.550	1.00	31.88	C
ATOM	2092	O	GLU	B	17	18.961	-6.177	53.346	1.00	31.76	O
ATOM	2093	CB	GLU	B	17	20.198	-5.193	50.702	1.00	32.22	C
ATOM	2094	CG	GLU	B	17	20.569	-5.477	49.256	1.00	33.17	C

FIG. 5II

ATOM	2095	CD	GLU	B	17	22.047	-5.273	48.975	1.00	35.12	C
ATOM	2096	OE1	GLU	B	17	22.477	-4.110	48.802	1.00	34.59	O
ATOM	2097	OE2	GLU	B	17	22.783	-6.282	48.917	1.00	36.62	O
ATOM	2098	N	PHE	B	18	17.753	-4.321	52.928	1.00	31.36	N
ATOM	2099	CA	PHE	B	18	17.422	-4.080	54.329	1.00	31.02	C
ATOM	2100	C	PHE	B	18	15.933	-3.776	54.548	1.00	31.04	C
ATOM	2101	O	PHE	B	18	15.230	-3.359	53.627	1.00	30.91	O
ATOM	2102	CB	PHE	B	18	18.319	-2.982	54.935	1.00	30.55	C
ATOM	2103	CG	PHE	B	18	18.177	-1.626	54.280	1.00	29.89	C
ATOM	2104	CD1	PHE	B	18	17.259	-0.698	54.760	1.00	29.27	C
ATOM	2105	CE1	PHE	B	18	17.130	0.558	54.166	1.00	28.49	C
ATOM	2106	CZ	PHE	B	18	17.925	0.897	53.082	1.00	28.29	C
ATOM	2107	CE2	PHE	B	18	18.850	-0.019	52.590	1.00	28.52	C
ATOM	2108	CD2	PHE	B	18	18.982	-1.269	53.196	1.00	29.36	C
ATOM	2109	N	LYS	B	19	15.470	-3.987	55.777	1.00	30.75	N
ATOM	2110	CA	LYS	B	19	14.080	-3.743	56.135	1.00	30.90	C
ATOM	2111	C	LYS	B	19	13.947	-3.119	57.522	1.00	30.85	C
ATOM	2112	O	LYS	B	19	14.409	-3.687	58.513	1.00	30.82	O
ATOM	2113	CB	LYS	B	19	13.272	-5.046	56.077	1.00	30.67	C
ATOM	2114	N	LYS	B	20	13.304	-1.956	57.575	1.00	30.91	N
ATOM	2115	CA	LYS	B	20	12.921	-1.325	58.835	1.00	31.54	C
ATOM	2116	C	LYS	B	20	11.773	-2.098	59.468	1.00	31.91	C
ATOM	2117	O	LYS	B	20	10.773	-2.394	58.804	1.00	32.29	O
ATOM	2118	CB	LYS	B	20	12.471	0.121	58.608	1.00	31.68	C
ATOM	2119	CG	LYS	B	20	13.489	1.027	57.960	1.00	32.01	C
ATOM	2120	CD	LYS	B	20	12.827	2.338	57.566	1.00	33.94	C
ATOM	2121	CE	LYS	B	20	13.007	2.631	56.091	1.00	35.02	C
ATOM	2122	NZ	LYS	B	20	13.598	3.988	55.903	1.00	36.81	N
ATOM	2123	N	ILE	B	21	11.913	-2.411	60.752	1.00	32.24	N
ATOM	2124	CA	ILE	B	21	10.881	-3.133	61.484	1.00	32.61	C
ATOM	2125	C	ILE	B	21	10.252	-2.287	62.606	1.00	33.07	C
ATOM	2126	O	ILE	B	21	9.038	-2.302	62.780	1.00	33.91	O
ATOM	2127	CB	ILE	B	21	11.421	-4.513	61.982	1.00	32.64	C
ATOM	2128	CG1	ILE	B	21	11.042	-5.615	60.991	1.00	32.36	C
ATOM	2129	CD1	ILE	B	21	12.190	-6.499	60.574	1.00	32.32	C
ATOM	2130	CG2	ILE	B	21	10.888	-4.874	63.362	1.00	32.84	C
ATOM	2131	N	LYS	B	22	11.064	-1.538	63.348	1.00	33.18	N
ATOM	2132	CA	LYS	B	22	10.540	-0.695	64.426	1.00	33.02	C
ATOM	2133	C	LYS	B	22	11.362	0.580	64.645	1.00	32.45	C
ATOM	2134	O	LYS	B	22	12.582	0.582	64.466	1.00	32.37	O
ATOM	2135	CB	LYS	B	22	10.378	-1.511	65.722	1.00	33.28	C
ATOM	2136	CG	LYS	B	22	11.252	-1.096	66.895	1.00	34.72	C
ATOM	2137	CD	LYS	B	22	10.965	-1.947	68.134	1.00	36.26	C
ATOM	2138	CE	LYS	B	22	10.344	-1.116	69.265	1.00	37.38	C
ATOM	2139	NZ	LYS	B	22	11.158	0.095	69.624	1.00	37.93	N
ATOM	2140	N	VAL	B	23	10.672	1.658	65.016	1.00	31.81	N
ATOM	2141	CA	VAL	B	23	11.295	2.947	65.312	1.00	31.31	C
ATOM	2142	C	VAL	B	23	11.936	2.915	66.701	1.00	31.22	C
ATOM	2143	O	VAL	B	23	11.312	2.471	67.669	1.00	31.50	O
ATOM	2144	CB	VAL	B	23	10.263	4.112	65.231	1.00	31.66	C
ATOM	2145	CG1	VAL	B	23	10.937	5.466	65.411	1.00	30.71	C
ATOM	2146	CG2	VAL	B	23	9.520	4.082	63.910	1.00	30.77	C
ATOM	2147	N	LEU	B	24	13.183	3.374	66.786	1.00	30.78	N
ATOM	2148	CA	LEU	B	24	13.927	3.382	68.043	1.00	30.60	C
ATOM	2149	C	LEU	B	24	14.085	4.781	68.614	1.00	30.65	C
ATOM	2150	O	LEU	B	24	14.251	4.946	69.822	1.00	30.68	O
ATOM	2151	CB	LEU	B	24	15.315	2.764	67.863	1.00	30.72	C
ATOM	2152	CG	LEU	B	24	15.442	1.295	67.475	1.00	30.42	C
ATOM	2153	CD1	LEU	B	24	16.908	0.921	67.455	1.00	29.08	C
ATOM	2154	CD2	LEU	B	24	14.646	0.377	68.422	1.00	31.11	C

FIG. 5JJ

ATOM	2155	N	GLY	B	25	14.044	5.784	67.746	1.00	30.59	N
ATOM	2156	CA	GLY	B	25	14.208	7.155	68.179	1.00	31.08	C
ATOM	2157	C	GLY	B	25	14.509	8.120	67.054	1.00	31.75	C
ATOM	2158	O	GLY	B	25	14.409	7.777	65.869	1.00	31.24	O
ATOM	2159	N	SER	B	26	14.876	9.337	67.444	1.00	32.16	N
ATOM	2160	CA	SER	B	26	15.187	10.412	66.511	1.00	33.09	C
ATOM	2161	C	SER	B	26	16.125	11.447	67.141	1.00	33.40	C
ATOM	2162	O	SER	B	26	16.416	11.392	68.336	1.00	33.11	O
ATOM	2163	CB	SER	B	26	13.902	11.095	66.036	1.00	32.88	C
ATOM	2164	OG	SER	B	26	13.078	11.437	67.135	1.00	33.34	O
ATOM	2165	N	GLY	B	27	16.594	12.377	66.315	1.00	33.88	N
ATOM	2166	CA	GLY	B	27	17.429	13.480	66.748	1.00	34.41	C
ATOM	2167	C	GLY	B	27	17.428	14.573	65.696	1.00	35.04	C
ATOM	2168	O	GLY	B	27	16.602	14.571	64.780	1.00	35.00	O
ATOM	2169	N	ALA	B	28	18.362	15.510	65.825	1.00	35.78	N
ATOM	2170	CA	ALA	B	28	18.546	16.561	64.827	1.00	36.05	C
ATOM	2171	C	ALA	B	28	18.841	16.000	63.436	1.00	36.09	C
ATOM	2172	O	ALA	B	28	18.481	16.621	62.436	1.00	36.99	O
ATOM	2173	CB	ALA	B	28	19.645	17.526	65.259	1.00	36.12	C
ATOM	2174	N	PHE	B	29	19.471	14.826	63.369	1.00	35.99	N
ATOM	2175	CA	PHE	B	29	19.887	14.256	62.079	1.00	35.68	C
ATOM	2176	C	PHE	B	29	18.854	13.371	61.380	1.00	34.69	C
ATOM	2177	O	PHE	B	29	18.897	13.216	60.163	1.00	34.81	O
ATOM	2178	CB	PHE	B	29	21.238	13.551	62.199	1.00	36.19	C
ATOM	2179	CG	PHE	B	29	22.347	14.451	62.678	1.00	38.34	C
ATOM	2180	CD1	PHE	B	29	22.659	15.627	61.993	1.00	39.30	C
ATOM	2181	CE1	PHE	B	29	23.676	16.456	62.431	1.00	39.60	C
ATOM	2182	CZ	PHE	B	29	24.398	16.122	63.573	1.00	40.23	C
ATOM	2183	CE2	PHE	B	29	24.099	14.955	64.269	1.00	39.74	C
ATOM	2184	CD2	PHE	B	29	23.073	14.130	63.821	1.00	39.17	C
ATOM	2185	N	GLY	B	30	17.937	12.784	62.143	1.00	33.88	N
ATOM	2186	CA	GLY	B	30	16.847	12.017	61.567	1.00	32.69	C
ATOM	2187	C	GLY	B	30	16.368	10.866	62.425	1.00	31.96	C
ATOM	2188	O	GLY	B	30	16.805	10.697	63.563	1.00	33.12	O
ATOM	2189	N	THR	B	31	15.467	10.067	61.867	1.00	30.52	N
ATOM	2190	CA	THR	B	31	14.843	8.956	62.578	1.00	28.81	C
ATOM	2191	C	THR	B	31	15.733	7.716	62.564	1.00	28.63	C
ATOM	2192	O	THR	B	31	16.400	7.430	61.568	1.00	28.17	O
ATOM	2193	CB	THR	B	31	13.462	8.632	61.939	1.00	28.33	C
ATOM	2194	OG1	THR	B	31	12.636	9.799	61.982	1.00	26.97	O
ATOM	2195	CG2	THR	B	31	12.678	7.624	62.777	1.00	26.74	C
ATOM	2196	N	VAL	B	32	15.723	6.984	63.677	1.00	28.10	N
ATOM	2197	CA	VAL	B	32	16.490	5.753	63.805	1.00	27.94	C
ATOM	2198	C	VAL	B	32	15.573	4.532	63.955	1.00	27.59	C
ATOM	2199	O	VAL	B	32	14.689	4.514	64.815	1.00	27.23	O
ATOM	2200	CB	VAL	B	32	17.477	5.808	64.995	1.00	27.56	C
ATOM	2201	CG1	VAL	B	32	18.536	4.730	64.845	1.00	27.73	C
ATOM	2202	CG2	VAL	B	32	18.123	7.182	65.106	1.00	28.46	C
ATOM	2203	N	TYR	B	33	15.813	3.515	63.126	1.00	26.88	N
ATOM	2204	CA	TYR	B	33	15.003	2.299	63.109	1.00	26.99	C
ATOM	2205	C	TYR	B	33	15.814	1.074	63.494	1.00	27.45	C
ATOM	2206	O	TYR	B	33	17.009	0.988	63.196	1.00	27.54	O
ATOM	2207	CB	TYR	B	33	14.430	2.043	61.711	1.00	26.40	C
ATOM	2208	CG	TYR	B	33	13.471	3.082	61.204	1.00	25.33	C
ATOM	2209	CD1	TYR	B	33	12.089	2.879	61.286	1.00	24.58	C
ATOM	2210	CE1	TYR	B	33	11.201	3.829	60.813	1.00	23.85	C
ATOM	2211	CZ	TYR	B	33	11.687	4.992	60.242	1.00	23.71	C
ATOM	2212	OH	TYR	B	33	10.811	5.926	59.777	1.00	25.43	O
ATOM	2213	CE2	TYR	B	33	13.046	5.221	60.134	1.00	23.94	C
ATOM	2214	CD2	TYR	B	33	13.936	4.262	60.616	1.00	24.69	C

FIG. 5KK

ATOM	2215	N	LYS	B	34	15.154	0.130	64.155	1.00	27.60	N
ATOM	2216	CA	LYS	B	34	15.668	-1.224	64.241	1.00	28.46	C
ATOM	2217	C	LYS	B	34	15.188	-1.958	62.994	1.00	28.86	C
ATOM	2218	O	LYS	B	34	14.002	-1.898	62.628	1.00	29.23	O
ATOM	2219	CB	LYS	B	34	15.212	-1.923	65.528	1.00	28.56	C
ATOM	2220	CG	LYS	B	34	14.487	-3.259	65.338	1.00	29.67	C
ATOM	2221	CD	LYS	B	34	15.401	-4.453	65.615	1.00	30.39	C
ATOM	2222	CE	LYS	B	34	15.319	-4.864	67.081	1.00	30.86	C
ATOM	2223	NZ	LYS	B	34	15.267	-6.344	67.236	1.00	31.69	N
ATOM	2224	N	GLY	B	35	16.121	-2.625	62.330	1.00	28.88	N
ATOM	2225	CA	GLY	B	35	15.803	-3.350	61.120	1.00	29.29	C
ATOM	2226	C	GLY	B	35	16.651	-4.580	60.893	1.00	29.43	C
ATOM	2227	O	GLY	B	35	17.472	-4.963	61.738	1.00	28.80	O
ATOM	2228	N	LEU	B	36	16.434	-5.202	59.738	1.00	29.90	N
ATOM	2229	CA	LEU	B	36	17.175	-6.393	59.346	1.00	30.45	C
ATOM	2230	C	LEU	B	36	17.904	-6.144	58.037	1.00	31.07	C
ATOM	2231	O	LEU	B	36	17.440	-5.373	57.200	1.00	31.12	O
ATOM	2232	CB	LEU	B	36	16.235	-7.594	59.217	1.00	30.34	C
ATOM	2233	CG	LEU	B	36	15.604	-8.171	60.494	1.00	30.19	C
ATOM	2234	CD1	LEU	B	36	14.686	-9.355	60.158	1.00	29.69	C
ATOM	2235	CD2	LEU	B	36	16.664	-8.589	61.508	1.00	29.41	C
ATOM	2236	N	TRP	B	37	19.051	-6.796	57.876	1.00	32.05	N
ATOM	2237	CA	TRP	B	37	19.906	-6.622	56.706	1.00	32.98	C
ATOM	2238	C	TRP	B	37	20.497	-7.963	56.241	1.00	33.39	C
ATOM	2239	O	TRP	B	37	21.000	-8.745	57.053	1.00	32.84	O
ATOM	2240	CB	TRP	B	37	21.021	-5.619	57.033	1.00	33.12	C
ATOM	2241	CG	TRP	B	37	22.147	-5.537	56.037	1.00	34.77	C
ATOM	2242	CD1	TRP	B	37	22.048	-5.546	54.670	1.00	35.24	C
ATOM	2243	NE1	TRP	B	37	23.295	-5.441	54.104	1.00	36.21	N
ATOM	2244	CE2	TRP	B	37	24.234	-5.357	55.099	1.00	36.82	C
ATOM	2245	CD2	TRP	B	37	23.545	-5.410	56.333	1.00	36.13	C
ATOM	2246	CE3	TRP	B	37	24.290	-5.333	57.522	1.00	36.03	C
ATOM	2247	CZ3	TRP	B	37	25.675	-5.213	57.443	1.00	37.00	C
ATOM	2248	CH2	TRP	B	37	26.331	-5.163	56.198	1.00	37.38	C
ATOM	2249	CZ2	TRP	B	37	25.631	-5.237	55.018	1.00	37.67	C
ATOM	2250	N	ILE	B	38	20.423	-8.213	54.935	1.00	34.01	N
ATOM	2251	CA	ILE	B	38	21.105	-9.349	54.313	1.00	34.78	C
ATOM	2252	C	ILE	B	38	22.273	-8.852	53.448	1.00	35.19	C
ATOM	2253	O	ILE	B	38	22.061	-8.332	52.350	1.00	35.24	O
ATOM	2254	CB	ILE	B	38	20.124	-10.209	53.481	1.00	34.91	C
ATOM	2255	CG1	ILE	B	38	18.917	-10.626	54.326	1.00	34.87	C
ATOM	2256	CD1	ILE	B	38	17.624	-10.739	53.544	1.00	35.11	C
ATOM	2257	CG2	ILE	B	38	20.833	-11.450	52.924	1.00	34.63	C
ATOM	2258	N	PRO	B	39	23.500	-9.017	53.947	1.00	35.54	N
ATOM	2259	CA	PRO	B	39	24.706	-8.528	53.260	1.00	35.80	C
ATOM	2260	C	PRO	B	39	24.896	-9.146	51.878	1.00	35.80	C
ATOM	2261	O	PRO	B	39	24.442	-10.272	51.668	1.00	35.94	O
ATOM	2262	CB	PRO	B	39	25.846	-8.979	54.183	1.00	36.00	C
ATOM	2263	CG	PRO	B	39	25.206	-9.208	55.512	1.00	36.08	C
ATOM	2264	CD	PRO	B	39	23.827	-9.706	55.209	1.00	35.61	C
ATOM	2265	N	LYS	B	45	19.967	-12.673	58.006	1.00	30.23	N
ATOM	2266	CA	LYS	B	45	19.319	-11.416	58.348	1.00	29.73	C
ATOM	2267	C	LYS	B	45	19.892	-10.909	59.656	1.00	29.68	C
ATOM	2268	O	LYS	B	45	19.529	-11.385	60.738	1.00	30.40	O
ATOM	2269	CB	LYS	B	45	17.801	-11.590	58.438	1.00	29.91	C
ATOM	2270	CG	LYS	B	45	17.173	-12.197	57.179	1.00	29.96	C
ATOM	2271	CD	LYS	B	45	15.689	-12.478	57.360	1.00	29.04	C
ATOM	2272	CE	LYS	B	45	15.006	-12.671	56.023	1.00	28.79	C
ATOM	2273	NZ	LYS	B	45	13.514	-12.655	56.141	1.00	29.30	N
ATOM	2274	N	ILE	B	46	20.816	-9.959	59.546	1.00	29.44	N

FIG. 5LL

ATOM	2275	CA	ILE	B	46	21.479	-9.376	60.706	1.00	29.19	C
ATOM	2276	C	ILE	B	46	20.662	-8.185	61.214	1.00	28.84	C
ATOM	2277	O	ILE	B	46	20.242	-7.343	60.417	1.00	28.97	O
ATOM	2278	CB	ILE	B	46	22.912	-8.934	60.342	1.00	29.26	C
ATOM	2279	CG1	ILE	B	46	23.760	-10.133	59.905	1.00	29.53	C
ATOM	2280	CD1	ILE	B	46	25.123	-9.739	59.314	1.00	30.04	C
ATOM	2281	CG2	ILE	B	46	23.580	-8.219	61.517	1.00	30.05	C
ATOM	2282	N	PRO	B	47	20.406	-8.130	62.524	1.00	28.40	N
ATOM	2283	CA	PRO	B	47	19.812	-6.934	63.139	1.00	27.73	C
ATOM	2284	C	PRO	B	47	20.737	-5.735	62.997	1.00	27.16	C
ATOM	2285	O	PRO	B	47	21.955	-5.874	63.158	1.00	27.70	O
ATOM	2286	CB	PRO	B	47	19.674	-7.316	64.617	1.00	27.98	C
ATOM	2287	CG	PRO	B	47	19.742	-8.811	64.653	1.00	28.63	C
ATOM	2288	CD	PRO	B	47	20.630	-9.207	63.505	1.00	28.50	C
ATOM	2289	N	VAL	B	48	20.165	-4.573	62.691	1.00	25.96	N
ATOM	2290	CA	VAL	B	48	20.945	-3.345	62.529	1.00	24.24	C
ATOM	2291	C	VAL	B	48	20.146	-2.134	62.976	1.00	23.62	C
ATOM	2292	O	VAL	B	48	18.928	-2.217	63.176	1.00	22.76	O
ATOM	2293	CB	VAL	B	48	21.381	-3.097	61.045	1.00	24.08	C
ATOM	2294	CG1	VAL	B	48	22.525	-4.026	60.627	1.00	24.06	C
ATOM	2295	CG2	VAL	B	48	20.191	-3.202	60.086	1.00	23.55	C
ATOM	2296	N	ALA	B	49	20.849	-1.013	63.129	1.00	22.63	N
ATOM	2297	CA	ALA	B	49	20.207	0.289	63.206	1.00	22.02	C
ATOM	2298	C	ALA	B	49	20.155	0.861	61.800	1.00	21.80	C
ATOM	2299	O	ALA	B	49	21.135	0.783	61.052	1.00	21.25	O
ATOM	2300	CB	ALA	B	49	20.961	1.221	64.146	1.00	20.54	C
ATOM	2301	N	ILE	B	50	19.001	1.406	61.430	1.00	22.56	N
ATOM	2302	CA	ILE	B	50	18.867	2.144	60.171	1.00	23.43	C
ATOM	2303	C	ILE	B	50	18.496	3.581	60.505	1.00	23.73	C
ATOM	2304	O	ILE	B	50	17.483	3.832	61.154	1.00	23.88	O
ATOM	2305	CB	ILE	B	50	17.791	1.525	59.231	1.00	23.24	C
ATOM	2306	CG1	ILE	B	50	18.074	0.047	58.952	1.00	24.08	C
ATOM	2307	CD1	ILE	B	50	16.870	-0.718	58.352	1.00	23.64	C
ATOM	2308	CG2	ILE	B	50	17.724	2.303	57.924	1.00	23.02	C
ATOM	2309	N	LYS	B	51	19.322	4.515	60.060	1.00	24.31	N
ATOM	2310	CA	LYS	B	51	19.073	5.925	60.289	1.00	25.12	C
ATOM	2311	C	LYS	B	51	18.703	6.613	58.987	1.00	25.12	C
ATOM	2312	O	LYS	B	51	19.522	6.703	58.077	1.00	25.25	O
ATOM	2313	CB	LYS	B	51	20.303	6.585	60.905	1.00	25.49	C
ATOM	2314	CG	LYS	B	51	20.044	7.959	61.496	1.00	26.70	C
ATOM	2315	CD	LYS	B	51	21.338	8.562	62.016	1.00	29.12	C
ATOM	2316	CE	LYS	B	51	21.485	8.372	63.519	1.00	30.08	C
ATOM	2317	NZ	LYS	B	51	21.591	9.691	64.199	1.00	31.87	N
ATOM	2318	N	GLU	B	52	17.458	7.078	58.912	1.00	25.40	N
ATOM	2319	CA	GLU	B	52	16.968	7.883	57.799	1.00	25.56	C
ATOM	2320	C	GLU	B	52	17.242	9.350	58.115	1.00	25.32	C
ATOM	2321	O	GLU	B	52	16.732	9.886	59.102	1.00	25.38	O
ATOM	2322	CB	GLU	B	52	15.469	7.646	57.579	1.00	25.71	C
ATOM	2323	CG	GLU	B	52	14.950	8.046	56.199	1.00	27.70	C
ATOM	2324	CD	GLU	B	52	13.672	7.303	55.805	1.00	29.86	C
ATOM	2325	OE1	GLU	B	52	13.644	6.652	54.733	1.00	30.54	O
ATOM	2326	OE2	GLU	B	52	12.689	7.356	56.568	1.00	31.09	O
ATOM	2327	N	LEU	B	53	18.052	9.991	57.278	1.00	25.08	N
ATOM	2328	CA	LEU	B	53	18.479	11.360	57.524	1.00	25.43	C
ATOM	2329	C	LEU	B	53	17.428	12.348	57.049	1.00	25.68	C
ATOM	2330	O	LEU	B	53	17.056	12.340	55.873	1.00	26.42	O
ATOM	2331	CB	LEU	B	53	19.821	11.631	56.833	1.00	24.84	C
ATOM	2332	CG	LEU	B	53	21.143	11.472	57.596	1.00	25.17	C
ATOM	2333	CD1	LEU	B	53	21.104	10.390	58.687	1.00	24.31	C
ATOM	2334	CD2	LEU	B	53	22.282	11.211	56.620	1.00	23.23	C

FIG. 5MM

ATOM	2335	N	LYS	B	60	24.107	19.303	48.871	1.00	35.82	N
ATOM	2336	CA	LYS	B	60	25.287	18.437	48.864	1.00	35.63	C
ATOM	2337	C	LYS	B	60	25.186	17.305	47.836	1.00	35.36	C
ATOM	2338	O	LYS	B	60	24.183	16.588	47.775	1.00	35.49	O
ATOM	2339	CB	LYS	B	60	25.542	17.867	50.264	1.00	35.81	C
ATOM	2340	N	ALA	B	61	26.245	17.145	47.045	1.00	34.96	N
ATOM	2341	CA	ALA	B	61	26.293	16.139	45.987	1.00	34.41	C
ATOM	2342	C	ALA	B	61	26.533	14.721	46.519	1.00	34.23	C
ATOM	2343	O	ALA	B	61	27.185	14.533	47.545	1.00	33.85	O
ATOM	2344	CB	ALA	B	61	27.357	16.506	44.981	1.00	33.96	C
ATOM	2345	N	ASN	B	62	26.021	13.729	45.795	1.00	33.90	N
ATOM	2346	CA	ASN	B	62	26.219	12.327	46.148	1.00	33.88	C
ATOM	2347	C	ASN	B	62	27.690	11.941	46.261	1.00	33.85	C
ATOM	2348	O	ASN	B	62	28.055	11.124	47.108	1.00	33.65	O
ATOM	2349	CB	ASN	B	62	25.497	11.408	45.161	1.00	33.62	C
ATOM	2350	CG	ASN	B	62	23.988	11.546	45.229	1.00	33.51	C
ATOM	2351	OD1	ASN	B	62	23.438	11.999	46.233	1.00	32.94	O
ATOM	2352	ND2	ASN	B	62	23.308	11.156	44.153	1.00	33.25	N
ATOM	2353	N	LYS	B	63	28.519	12.537	45.405	1.00	34.03	N
ATOM	2354	CA	LYS	B	63	29.973	12.398	45.470	1.00	34.37	C
ATOM	2355	C	LYS	B	63	30.515	12.813	46.844	1.00	34.47	C
ATOM	2356	O	LYS	B	63	31.297	12.083	47.462	1.00	34.54	O
ATOM	2357	CB	LYS	B	63	30.630	13.228	44.364	1.00	34.22	C
ATOM	2358	CG	LYS	B	63	32.119	13.443	44.550	1.00	34.56	C
ATOM	2359	CD	LYS	B	63	32.742	14.126	43.350	1.00	35.60	C
ATOM	2360	CE	LYS	B	63	34.118	13.554	43.056	1.00	36.59	C
ATOM	2361	NZ	LYS	B	63	35.129	13.939	44.093	1.00	37.21	N
ATOM	2362	N	GLU	B	64	30.084	13.982	47.312	1.00	34.76	N
ATOM	2363	CA	GLU	B	64	30.470	14.490	48.623	1.00	35.26	C
ATOM	2364	C	GLU	B	64	30.025	13.525	49.722	1.00	34.76	C
ATOM	2365	O	GLU	B	64	30.840	13.091	50.540	1.00	35.19	O
ATOM	2366	CB	GLU	B	64	29.875	15.884	48.855	1.00	36.16	C
ATOM	2367	CG	GLU	B	64	30.712	17.028	48.296	1.00	38.54	C
ATOM	2368	CD	GLU	B	64	29.896	18.033	47.494	1.00	41.32	C
ATOM	2369	OE1	GLU	B	64	30.210	18.236	46.299	1.00	42.74	O
ATOM	2370	OE2	GLU	B	64	28.946	18.631	48.050	1.00	42.99	O
ATOM	2371	N	ILE	B	65	28.739	13.172	49.712	1.00	34.08	N
ATOM	2372	CA	ILE	B	65	28.152	12.287	50.717	1.00	33.11	C
ATOM	2373	C	ILE	B	65	28.931	10.983	50.845	1.00	32.72	C
ATOM	2374	O	ILE	B	65	29.264	10.555	51.952	1.00	32.24	O
ATOM	2375	CB	ILE	B	65	26.665	11.997	50.392	1.00	33.23	C
ATOM	2376	CG1	ILE	B	65	25.867	13.301	50.307	1.00	32.72	C
ATOM	2377	CD1	ILE	B	65	24.615	13.193	49.467	1.00	33.11	C
ATOM	2378	CG2	ILE	B	65	26.048	11.033	51.425	1.00	32.17	C
ATOM	2379	N	LEU	B	66	29.228	10.369	49.702	1.00	32.43	N
ATOM	2380	CA	LEU	B	66	29.873	9.060	49.677	1.00	32.09	C
ATOM	2381	C	LEU	B	66	31.321	9.119	50.140	1.00	31.93	C
ATOM	2382	O	LEU	B	66	31.779	8.215	50.840	1.00	31.40	O
ATOM	2383	CB	LEU	B	66	29.775	8.431	48.290	1.00	31.89	C
ATOM	2384	CG	LEU	B	66	28.393	7.923	47.888	1.00	32.00	C
ATOM	2385	CD1	LEU	B	66	28.381	7.627	46.406	1.00	32.67	C
ATOM	2386	CD2	LEU	B	66	27.987	6.684	48.679	1.00	32.68	C
ATOM	2387	N	ASP	B	67	32.026	10.184	49.750	1.00	31.87	N
ATOM	2388	CA	ASP	B	67	33.398	10.432	50.207	1.00	31.89	C
ATOM	2389	C	ASP	B	67	33.453	10.574	51.724	1.00	31.37	C
ATOM	2390	O	ASP	B	67	34.335	10.010	52.371	1.00	31.49	O
ATOM	2391	CB	ASP	B	67	33.989	11.681	49.541	1.00	32.19	C
ATOM	2392	CG	ASP	B	67	34.594	11.391	48.169	1.00	32.97	C
ATOM	2393	OD1	ASP	B	67	34.807	10.207	47.822	1.00	34.04	O
ATOM	2394	OD2	ASP	B	67	34.883	12.295	47.364	1.00	33.98	O

FIG. 5NN

ATOM	2395	N	GLU	B	68	32.503	11.325	52.277	1.00	30.71	N
ATOM	2396	CA	GLU	B	68	32.314	11.414	53.720	1.00	30.05	C
ATOM	2397	C	GLU	B	68	31.983	10.046	54.321	1.00	29.64	C
ATOM	2398	O	GLU	B	68	32.545	9.665	55.349	1.00	29.65	O
ATOM	2399	CB	GLU	B	68	31.213	12.423	54.056	1.00	30.08	C
ATOM	2400	N	ALA	B	69	31.085	9.306	53.667	1.00	28.81	N
ATOM	2401	CA	ALA	B	69	30.638	8.005	54.175	1.00	28.17	C
ATOM	2402	C	ALA	B	69	31.765	6.973	54.233	1.00	27.40	C
ATOM	2403	O	ALA	B	69	31.764	6.109	55.110	1.00	27.34	O
ATOM	2404	CB	ALA	B	69	29.453	7.473	53.360	1.00	27.86	C
ATOM	2405	N	TYR	B	70	32.708	7.070	53.293	1.00	26.83	N
ATOM	2406	CA	TYR	B	70	33.913	6.241	53.281	1.00	26.18	C
ATOM	2407	C	TYR	B	70	34.724	6.441	54.563	1.00	25.63	C
ATOM	2408	O	TYR	B	70	34.999	5.487	55.290	1.00	25.75	O
ATOM	2409	CB	TYR	B	70	34.784	6.573	52.063	1.00	26.20	C
ATOM	2410	N	VAL	B	71	35.105	7.687	54.827	1.00	24.50	N
ATOM	2411	CA	VAL	B	71	35.759	8.048	56.083	1.00	23.93	C
ATOM	2412	C	VAL	B	71	35.008	7.436	57.277	1.00	23.40	C
ATOM	2413	O	VAL	B	71	35.594	6.686	58.054	1.00	23.33	O
ATOM	2414	CB	VAL	B	71	35.896	9.582	56.215	1.00	23.65	C
ATOM	2415	CG1	VAL	B	71	36.481	9.963	57.557	1.00	24.23	C
ATOM	2416	CG2	VAL	B	71	36.758	10.135	55.086	1.00	22.88	C
ATOM	2417	N	MET	B	72	33.704	7.707	57.375	1.00	22.98	N
ATOM	2418	CA	MET	B	72	32.867	7.205	58.472	1.00	22.35	C
ATOM	2419	C	MET	B	72	32.937	5.700	58.691	1.00	22.28	C
ATOM	2420	O	MET	B	72	32.876	5.232	59.836	1.00	21.97	O
ATOM	2421	CB	MET	B	72	31.413	7.621	58.293	1.00	22.55	C
ATOM	2422	CG	MET	B	72	31.153	9.106	58.455	1.00	23.54	C
ATOM	2423	SD	MET	B	72	29.707	9.594	57.495	1.00	25.55	S
ATOM	2424	CE	MET	B	72	28.386	9.081	58.572	1.00	23.25	C
ATOM	2425	N	ALA	B	73	33.075	4.958	57.588	1.00	21.57	N
ATOM	2426	CA	ALA	B	73	33.123	3.499	57.592	1.00	20.92	C
ATOM	2427	C	ALA	B	73	34.492	2.917	57.943	1.00	20.93	C
ATOM	2428	O	ALA	B	73	34.629	1.701	58.161	1.00	20.50	O
ATOM	2429	CB	ALA	B	73	32.667	2.969	56.243	1.00	20.91	C
ATOM	2430	N	SER	B	74	35.507	3.775	57.967	1.00	21.07	N
ATOM	2431	CA	SER	B	74	36.868	3.358	58.267	1.00	21.12	C
ATOM	2432	C	SER	B	74	37.177	3.439	59.776	1.00	21.58	C
ATOM	2433	O	SER	B	74	38.204	2.937	60.237	1.00	21.30	O
ATOM	2434	CB	SER	B	74	37.853	4.223	57.483	1.00	21.34	C
ATOM	2435	OG	SER	B	74	37.886	5.542	58.000	1.00	20.80	O
ATOM	2436	N	VAL	B	75	36.285	4.073	60.534	1.00	21.73	N
ATOM	2437	CA	VAL	B	75	36.480	4.261	61.969	1.00	22.25	C
ATOM	2438	C	VAL	B	75	36.382	2.920	62.702	1.00	22.43	C
ATOM	2439	O	VAL	B	75	35.314	2.312	62.767	1.00	22.56	O
ATOM	2440	CB	VAL	B	75	35.468	5.288	62.547	1.00	22.60	C
ATOM	2441	CG1	VAL	B	75	35.373	5.161	64.045	1.00	22.97	C
ATOM	2442	CG2	VAL	B	75	35.871	6.702	62.162	1.00	21.91	C
ATOM	2443	N	ASP	B	76	37.505	2.464	63.241	1.00	22.26	N
ATOM	2444	CA	ASP	B	76	37.575	1.147	63.857	1.00	22.70	C
ATOM	2445	C	ASP	B	76	38.123	1.219	65.286	1.00	21.92	C
ATOM	2446	O	ASP	B	76	39.325	1.091	65.523	1.00	21.82	O
ATOM	2447	CB	ASP	B	76	38.410	0.201	62.980	1.00	23.88	C
ATOM	2448	CG	ASP	B	76	38.331	-1.239	63.432	1.00	25.38	C
ATOM	2449	OD1	ASP	B	76	37.334	-1.612	64.086	1.00	28.10	O
ATOM	2450	OD2	ASP	B	76	39.222	-2.076	63.184	1.00	28.14	O
ATOM	2451	N	ASN	B	77	37.211	1.449	66.222	1.00	20.75	N
ATOM	2452	CA	ASN	B	77	37.519	1.570	67.632	1.00	19.45	C
ATOM	2453	C	ASN	B	77	36.298	1.114	68.421	1.00	18.63	C
ATOM	2454	O	ASN	B	77	35.176	1.410	68.020	1.00	18.76	O

FIG. 500

ATOM	2455	CB	ASN	B	77	37.852	3.021	67.978	1.00	19.30	C
ATOM	2456	CG	ASN	B	77	38.111	3.217	69.455	1.00	19.07	C
ATOM	2457	OD1	ASN	B	77	37.210	3.558	70.219	1.00	18.90	O
ATOM	2458	ND2	ASN	B	77	39.338	2.961	69.872	1.00	19.78	N
ATOM	2459	N	PRO	B	78	36.503	0.403	69.531	1.00	18.22	N
ATOM	2460	CA	PRO	B	78	35.381	-0.112	70.338	1.00	17.65	C
ATOM	2461	C	PRO	B	78	34.465	0.970	70.925	1.00	17.30	C
ATOM	2462	O	PRO	B	78	33.376	0.636	71.380	1.00	17.27	O
ATOM	2463	CB	PRO	B	78	36.077	-0.875	71.476	1.00	17.40	C
ATOM	2464	CG	PRO	B	78	37.469	-1.111	71.003	1.00	17.81	C
ATOM	2465	CD	PRO	B	78	37.814	0.015	70.091	1.00	17.79	C
ATOM	2466	N	HIS	B	79	34.886	2.231	70.903	1.00	16.76	N
ATOM	2467	CA	HIS	B	79	34.107	3.298	71.511	1.00	16.62	C
ATOM	2468	C	HIS	B	79	33.640	4.376	70.540	1.00	17.28	C
ATOM	2469	O	HIS	B	79	33.203	5.455	70.957	1.00	16.78	O
ATOM	2470	CB	HIS	B	79	34.863	3.884	72.699	1.00	16.25	C
ATOM	2471	CG	HIS	B	79	35.187	2.864	73.739	1.00	15.59	C
ATOM	2472	ND1	HIS	B	79	34.214	2.225	74.477	1.00	15.58	N
ATOM	2473	CE1	HIS	B	79	34.783	1.360	75.295	1.00	15.24	C
ATOM	2474	NE2	HIS	B	79	36.090	1.407	75.106	1.00	15.70	N
ATOM	2475	CD2	HIS	B	79	36.367	2.330	74.128	1.00	15.23	C
ATOM	2476	N	VAL	B	80	33.731	4.071	69.247	1.00	18.09	N
ATOM	2477	CA	VAL	B	80	33.107	4.882	68.203	1.00	19.06	C
ATOM	2478	C	VAL	B	80	32.332	3.958	67.255	1.00	19.99	C
ATOM	2479	O	VAL	B	80	32.827	2.885	66.875	1.00	20.37	O
ATOM	2480	CB	VAL	B	80	34.141	5.727	67.408	1.00	19.07	C
ATOM	2481	CG1	VAL	B	80	33.440	6.716	66.492	1.00	18.71	C
ATOM	2482	CG2	VAL	B	80	35.099	6.480	68.349	1.00	18.69	C
ATOM	2483	N	CYS	B	81	31.115	4.369	66.902	1.00	20.57	N
ATOM	2484	CA	CYS	B	81	30.274	3.661	65.932	1.00	21.04	C
ATOM	2485	C	CYS	B	81	30.789	3.803	64.492	1.00	21.16	C
ATOM	2486	O	CYS	B	81	30.920	4.919	63.973	1.00	20.67	O
ATOM	2487	CB	CYS	B	81	28.850	4.208	65.987	1.00	20.66	C
ATOM	2488	SG	CYS	B	81	27.968	3.883	67.528	1.00	24.94	S
ATOM	2489	N	ARG	B	82	31.062	2.677	63.840	1.00	21.12	N
ATOM	2490	CA	ARG	B	82	31.383	2.712	62.415	1.00	21.57	C
ATOM	2491	C	ARG	B	82	30.149	2.585	61.536	1.00	21.20	C
ATOM	2492	O	ARG	B	82	29.220	1.834	61.857	1.00	20.65	O
ATOM	2493	CB	ARG	B	82	32.442	1.672	62.015	1.00	21.61	C
ATOM	2494	CG	ARG	B	82	32.103	0.224	62.254	1.00	24.13	C
ATOM	2495	CD	ARG	B	82	33.068	-0.757	61.551	1.00	25.41	C
ATOM	2496	NE	ARG	B	82	33.310	-0.339	60.175	1.00	26.67	N
ATOM	2497	CZ	ARG	B	82	33.087	-1.094	59.099	1.00	27.89	C
ATOM	2498	NH1	ARG	B	82	33.321	-0.606	57.887	1.00	27.21	N
ATOM	2499	NH2	ARG	B	82	32.635	-2.336	59.226	1.00	28.49	N
ATOM	2500	N	LEU	B	83	30.158	3.326	60.430	1.00	20.59	N
ATOM	2501	CA	LEU	B	83	29.180	3.146	59.371	1.00	21.03	C
ATOM	2502	C	LEU	B	83	29.392	1.808	58.664	1.00	21.12	C
ATOM	2503	O	LEU	B	83	30.474	1.547	58.128	1.00	21.23	O
ATOM	2504	CB	LEU	B	83	29.262	4.291	58.355	1.00	20.75	C
ATOM	2505	CG	LEU	B	83	28.126	4.305	57.323	1.00	20.46	C
ATOM	2506	CD1	LEU	B	83	26.777	4.404	58.020	1.00	18.57	C
ATOM	2507	CD2	LEU	B	83	28.306	5.437	56.324	1.00	20.59	C
ATOM	2508	N	LEU	B	84	28.361	0.966	58.672	1.00	21.46	N
ATOM	2509	CA	LEU	B	84	28.424	-0.332	57.993	1.00	21.83	C
ATOM	2510	C	LEU	B	84	28.043	-0.215	56.524	1.00	22.01	C
ATOM	2511	O	LEU	B	84	28.692	-0.808	55.662	1.00	22.89	O
ATOM	2512	CB	LEU	B	84	27.535	-1.367	58.688	1.00	21.87	C
ATOM	2513	CG	LEU	B	84	27.909	-1.870	60.091	1.00	22.94	C
ATOM	2514	CD1	LEU	B	84	27.063	-3.086	60.458	1.00	22.71	C

FIG. 5PP



ATOM	2515	CD2	LEU	B	84	29.400	-2.209	60.202	1.00	23.06	C
ATOM	2516	N	GLY	B	85	26.993	0.556	56.246	1.00	21.90	N
ATOM	2517	CA	GLY	B	85	26.523	0.764	54.887	1.00	21.72	C
ATOM	2518	C	GLY	B	85	25.743	2.051	54.657	1.00	21.48	C
ATOM	2519	O	GLY	B	85	25.283	2.708	55.592	1.00	20.43	O
ATOM	2520	N	ILE	B	86	25.609	2.414	53.388	1.00	22.03	N
ATOM	2521	CA	ILE	B	86	24.823	3.576	52.993	1.00	23.02	C
ATOM	2522	C	ILE	B	86	23.897	3.230	51.834	1.00	23.29	C
ATOM	2523	O	ILE	B	86	24.248	2.443	50.962	1.00	23.90	O
ATOM	2524	CB	ILE	B	86	25.748	4.787	52.655	1.00	22.54	C
ATOM	2525	CG1	ILE	B	86	24.923	6.037	52.322	1.00	22.40	C
ATOM	2526	CD1	ILE	B	86	25.665	7.360	52.519	1.00	20.16	C
ATOM	2527	CG2	ILE	B	86	26.748	4.434	51.547	1.00	23.46	C
ATOM	2528	N	CYS	B	87	22.711	3.828	51.837	1.00	24.14	N
ATOM	2529	CA	CYS	B	87	21.762	3.680	50.744	1.00	24.38	C
ATOM	2530	C	CYS	B	87	21.235	5.041	50.329	1.00	24.49	C
ATOM	2531	O	CYS	B	87	20.686	5.771	51.159	1.00	24.32	O
ATOM	2532	CB	CYS	B	87	20.600	2.779	51.154	1.00	23.75	C
ATOM	2533	SG	CYS	B	87	19.374	2.580	49.848	1.00	25.50	S
ATOM	2534	N	LEU	B	88	21.401	5.367	49.047	1.00	24.76	N
ATOM	2535	CA	LEU	B	88	20.933	6.643	48.496	1.00	25.70	C
ATOM	2536	C	LEU	B	88	19.710	6.471	47.606	1.00	26.24	C
ATOM	2537	O	LEU	B	88	19.830	6.040	46.459	1.00	27.00	O
ATOM	2538	CB	LEU	B	88	22.035	7.357	47.699	1.00	25.41	C
ATOM	2539	CG	LEU	B	88	23.445	7.532	48.285	1.00	26.65	C
ATOM	2540	CD1	LEU	B	88	24.448	7.779	47.158	1.00	26.03	C
ATOM	2541	CD2	LEU	B	88	23.505	8.658	49.318	1.00	25.11	C
ATOM	2542	N	THR	B	89	18.534	6.789	48.143	1.00	26.96	N
ATOM	2543	CA	THR	B	89	17.317	6.883	47.339	1.00	27.40	C
ATOM	2544	C	THR	B	89	16.668	8.240	47.589	1.00	27.88	C
ATOM	2545	O	THR	B	89	17.355	9.258	47.554	1.00	29.14	O
ATOM	2546	CB	THR	B	89	16.347	5.709	47.604	1.00	27.45	C
ATOM	2547	OG1	THR	B	89	16.151	5.544	49.013	1.00	27.64	O
ATOM	2548	CG2	THR	B	89	16.967	4.383	47.171	1.00	26.98	C
ATOM	2549	N	SER	B	90	15.363	8.274	47.835	1.00	28.04	N
ATOM	2550	CA	SER	B	90	14.683	9.538	48.128	1.00	27.95	C
ATOM	2551	C	SER	B	90	15.281	10.176	49.384	1.00	27.91	C
ATOM	2552	O	SER	B	90	15.338	11.402	49.513	1.00	27.35	O
ATOM	2553	CB	SER	B	90	13.178	9.322	48.301	1.00	27.76	C
ATOM	2554	N	THR	B	91	15.726	9.324	50.304	1.00	27.53	N
ATOM	2555	CA	THR	B	91	16.449	9.768	51.487	1.00	27.38	C
ATOM	2556	C	THR	B	91	17.796	9.074	51.494	1.00	26.76	C
ATOM	2557	O	THR	B	91	17.957	8.045	50.843	1.00	27.69	O
ATOM	2558	CB	THR	B	91	15.676	9.378	52.758	1.00	27.65	C
ATOM	2559	OG1	THR	B	91	15.419	7.964	52.738	1.00	28.16	O
ATOM	2560	CG2	THR	B	91	14.273	10.009	52.781	1.00	27.34	C
ATOM	2561	N	VAL	B	92	18.765	9.628	52.215	1.00	26.07	N
ATOM	2562	CA	VAL	B	92	19.963	8.859	52.555	1.00	25.56	C
ATOM	2563	C	VAL	B	92	19.701	8.055	53.840	1.00	25.11	C
ATOM	2564	O	VAL	B	92	19.095	8.554	54.789	1.00	25.18	O
ATOM	2565	CB	VAL	B	92	21.276	9.726	52.590	1.00	25.80	C
ATOM	2566	CG1	VAL	B	92	20.970	11.215	52.652	1.00	26.18	C
ATOM	2567	CG2	VAL	B	92	22.228	9.299	53.710	1.00	25.19	C
ATOM	2568	N	GLN	B	93	20.127	6.797	53.837	1.00	24.35	N
ATOM	2569	CA	GLN	B	93	19.879	5.882	54.946	1.00	23.94	C
ATOM	2570	C	GLN	B	93	21.175	5.218	55.374	1.00	23.50	C
ATOM	2571	O	GLN	B	93	21.879	4.617	54.557	1.00	23.29	O
ATOM	2572	CB	GLN	B	93	18.855	4.812	54.553	1.00	23.94	C
ATOM	2573	CG	GLN	B	93	17.436	5.322	54.364	1.00	24.30	C
ATOM	2574	CD	GLN	B	93	16.438	4.194	54.220	1.00	25.21	C

FIG. 5QQ

ATOM	2575	OE1	GLN	B	93	15.989	3.627	55.217	1.00	25.55	O
ATOM	2576	NE2	GLN	B	93	16.101	3.852	52.985	1.00	25.37	N
ATOM	2577	N	LEU	B	94	21.487	5.324	56.660	1.00	23.14	N
ATOM	2578	CA	LEU	B	94	22.754	4.817	57.171	1.00	22.90	C
ATOM	2579	C	LEU	B	94	22.538	3.572	58.013	1.00	22.73	C
ATOM	2580	O	LEU	B	94	21.736	3.574	58.944	1.00	22.24	O
ATOM	2581	CB	LEU	B	94	23.487	5.893	57.973	1.00	22.86	C
ATOM	2582	CG	LEU	B	94	23.767	7.250	57.317	1.00	23.23	C
ATOM	2583	CD1	LEU	B	94	24.284	8.221	58.362	1.00	21.95	C
ATOM	2584	CD2	LEU	B	94	24.766	7.146	56.151	1.00	23.29	C
ATOM	2585	N	ILE	B	95	23.264	2.512	57.670	1.00	22.93	N
ATOM	2586	CA	ILE	B	95	23.153	1.233	58.358	1.00	23.65	C
ATOM	2587	C	ILE	B	95	24.368	1.058	59.268	1.00	24.36	C
ATOM	2588	O	ILE	B	95	25.505	1.207	58.824	1.00	24.72	O
ATOM	2589	CB	ILE	B	95	23.025	0.059	57.328	1.00	23.42	C
ATOM	2590	CG1	ILE	B	95	21.623	0.024	56.701	1.00	22.82	C
ATOM	2591	CD1	ILE	B	95	21.383	1.054	55.590	1.00	21.22	C
ATOM	2592	CG2	ILE	B	95	23.322	-1.289	57.989	1.00	22.89	C
ATOM	2593	N	THR	B	96	24.112	0.775	60.543	1.00	25.04	N
ATOM	2594	CA	THR	B	96	25.165	0.560	61.538	1.00	26.08	C
ATOM	2595	C	THR	B	96	24.816	-0.623	62.431	1.00	26.75	C
ATOM	2596	O	THR	B	96	23.778	-1.276	62.252	1.00	26.73	O
ATOM	2597	CB	THR	B	96	25.361	1.811	62.435	1.00	26.32	C
ATOM	2598	OG1	THR	B	96	24.198	1.995	63.258	1.00	26.97	O
ATOM	2599	CG2	THR	B	96	25.446	3.098	61.611	1.00	25.72	C
ATOM	2600	N	GLN	B	97	25.682	-0.882	63.407	1.00	27.33	N
ATOM	2601	CA	GLN	B	97	25.415	-1.893	64.416	1.00	27.72	C
ATOM	2602	C	GLN	B	97	24.342	-1.396	65.382	1.00	27.90	C
ATOM	2603	O	GLN	B	97	24.411	-0.272	65.888	1.00	27.68	O
ATOM	2604	CB	GLN	B	97	26.692	-2.249	65.175	1.00	27.95	C
ATOM	2605	CG	GLN	B	97	26.575	-3.505	66.030	1.00	28.85	C
ATOM	2606	CD	GLN	B	97	27.791	-3.733	66.898	1.00	30.48	C
ATOM	2607	OE1	GLN	B	97	28.927	-3.699	66.415	1.00	30.45	O
ATOM	2608	NE2	GLN	B	97	27.562	-3.976	68.182	1.00	31.15	N
ATOM	2609	N	LEU	B	98	23.353	-2.249	65.628	1.00	27.99	N
ATOM	2610	CA	LEU	B	98	22.275	-1.946	66.560	1.00	28.25	C
ATOM	2611	C	LEU	B	98	22.820	-1.773	67.973	1.00	28.10	C
ATOM	2612	O	LEU	B	98	23.499	-2.651	68.497	1.00	28.46	O
ATOM	2613	CB	LEU	B	98	21.226	-3.062	66.525	1.00	28.18	C
ATOM	2614	CG	LEU	B	98	20.001	-2.977	67.431	1.00	28.87	C
ATOM	2615	CD1	LEU	B	98	18.983	-2.028	66.857	1.00	29.73	C
ATOM	2616	CD2	LEU	B	98	19.403	-4.355	67.593	1.00	29.80	C
ATOM	2617	N	MET	B	99	22.540	-0.626	68.578	1.00	27.86	N
ATOM	2618	CA	MET	B	99	22.921	-0.406	69.963	1.00	27.53	C
ATOM	2619	C	MET	B	99	21.686	-0.425	70.861	1.00	27.17	C
ATOM	2620	O	MET	B	99	20.962	0.565	70.976	1.00	27.76	O
ATOM	2621	CB	MET	B	99	23.763	0.852	70.120	1.00	27.77	C
ATOM	2622	CG	MET	B	99	25.065	0.538	70.820	1.00	28.91	C
ATOM	2623	SD	MET	B	99	26.547	0.790	69.889	1.00	29.11	S
ATOM	2624	CE	MET	B	99	26.574	-0.601	68.791	1.00	29.87	C
ATOM	2625	N	PRO	B	100	21.456	-1.589	71.468	1.00	26.21	N
ATOM	2626	CA	PRO	B	100	20.168	-1.968	72.065	1.00	25.16	C
ATOM	2627	C	PRO	B	100	19.660	-1.162	73.262	1.00	24.07	C
ATOM	2628	O	PRO	B	100	18.461	-1.184	73.521	1.00	23.91	O
ATOM	2629	CB	PRO	B	100	20.415	-3.422	72.491	1.00	25.31	C
ATOM	2630	CG	PRO	B	100	21.538	-3.873	71.610	1.00	25.47	C
ATOM	2631	CD	PRO	B	100	22.442	-2.677	71.584	1.00	26.61	C
ATOM	2632	N	PHE	B	101	20.532	-0.483	73.994	1.00	23.55	N
ATOM	2633	CA	PHE	B	101	20.065	0.315	75.129	1.00	21.97	C
ATOM	2634	C	PHE	B	101	19.858	1.783	74.748	1.00	21.55	C

FIG. 5RR

ATOM	2635	O	PHE	B	101	19.432	2.605	75.566	1.00	21.46	O
ATOM	2636	CB	PHE	B	101	20.990	0.149	76.328	1.00	21.63	C
ATOM	2637	CG	PHE	B	101	20.986	-1.237	76.910	1.00	20.98	C
ATOM	2638	CD1	PHE	B	101	20.123	-1.573	77.951	1.00	20.86	C
ATOM	2639	CE1	PHE	B	101	20.129	-2.862	78.495	1.00	20.19	C
ATOM	2640	CZ	PHE	B	101	21.006	-3.819	78.002	1.00	19.17	C
ATOM	2641	CE2	PHE	B	101	21.865	-3.492	76.969	1.00	20.10	C
ATOM	2642	CD2	PHE	B	101	21.852	-2.205	76.429	1.00	20.98	C
ATOM	2643	N	GLY	B	102	20.145	2.097	73.490	1.00	20.66	N
ATOM	2644	CA	GLY	B	102	19.847	3.406	72.949	1.00	20.06	C
ATOM	2645	C	GLY	B	102	20.822	4.498	73.346	1.00	20.02	C
ATOM	2646	O	GLY	B	102	22.015	4.270	73.558	1.00	19.74	O
ATOM	2647	N	CYS	B	103	20.279	5.698	73.454	1.00	19.12	N
ATOM	2648	CA	CYS	B	103	21.035	6.907	73.683	1.00	19.11	C
ATOM	2649	C	CYS	B	103	21.391	7.115	75.166	1.00	18.29	C
ATOM	2650	O	CYS	B	103	20.535	6.981	76.051	1.00	17.97	O
ATOM	2651	CB	CYS	B	103	20.193	8.056	73.140	1.00	20.09	C
ATOM	2652	SG	CYS	B	103	20.807	9.700	73.416	1.00	23.15	S
ATOM	2653	N	LEU	B	104	22.660	7.440	75.427	1.00	17.12	N
ATOM	2654	CA	LEU	B	104	23.153	7.655	76.790	1.00	15.63	C
ATOM	2655	C	LEU	B	104	22.440	8.788	77.535	1.00	15.39	C
ATOM	2656	O	LEU	B	104	22.253	8.709	78.755	1.00	14.67	O
ATOM	2657	CB	LEU	B	104	24.661	7.904	76.790	1.00	15.18	C
ATOM	2658	CG	LEU	B	104	25.365	7.970	78.156	1.00	15.34	C
ATOM	2659	CD1	LEU	B	104	25.218	6.674	78.974	1.00	14.66	C
ATOM	2660	CD2	LEU	B	104	26.846	8.340	77.987	1.00	16.28	C
ATOM	2661	N	LEU	B	105	22.065	9.839	76.803	1.00	14.31	N
ATOM	2662	CA	LEU	B	105	21.304	10.936	77.381	1.00	14.50	C
ATOM	2663	C	LEU	B	105	20.001	10.439	78.012	1.00	13.83	C
ATOM	2664	O	LEU	B	105	19.724	10.752	79.164	1.00	13.04	O
ATOM	2665	CB	LEU	B	105	21.024	12.043	76.343	1.00	14.26	C
ATOM	2666	CG	LEU	B	105	20.303	13.275	76.910	1.00	14.49	C
ATOM	2667	CD1	LEU	B	105	21.073	13.881	78.067	1.00	13.80	C
ATOM	2668	CD2	LEU	B	105	19.998	14.322	75.845	1.00	14.77	C
ATOM	2669	N	ASP	B	106	19.222	9.673	77.242	1.00	14.14	N
ATOM	2670	CA	ASP	B	106	17.959	9.102	77.698	1.00	15.05	C
ATOM	2671	C	ASP	B	106	18.206	8.073	78.791	1.00	15.23	C
ATOM	2672	O	ASP	B	106	17.441	7.974	79.751	1.00	15.20	O
ATOM	2673	CB	ASP	B	106	17.196	8.455	76.533	1.00	15.46	C
ATOM	2674	CG	ASP	B	106	16.851	9.448	75.438	1.00	17.25	C
ATOM	2675	OD1	ASP	B	106	16.785	9.032	74.259	1.00	19.23	O
ATOM	2676	OD2	ASP	B	106	16.644	10.667	75.655	1.00	17.57	O
ATOM	2677	N	TYR	B	107	19.295	7.328	78.649	1.00	15.49	N
ATOM	2678	CA	TYR	B	107	19.653	6.317	79.624	1.00	16.54	C
ATOM	2679	C	TYR	B	107	19.793	6.881	81.044	1.00	16.61	C
ATOM	2680	O	TYR	B	107	19.169	6.364	81.980	1.00	15.97	O
ATOM	2681	CB	TYR	B	107	20.928	5.588	79.202	1.00	16.82	C
ATOM	2682	CG	TYR	B	107	21.189	4.361	80.028	1.00	17.98	C
ATOM	2683	CD1	TYR	B	107	20.532	3.163	79.757	1.00	18.47	C
ATOM	2684	CE1	TYR	B	107	20.772	2.030	80.522	1.00	19.67	C
ATOM	2685	CZ	TYR	B	107	21.668	2.095	81.570	1.00	20.24	C
ATOM	2686	OH	TYR	B	107	21.911	0.977	82.339	1.00	22.83	O
ATOM	2687	CE2	TYR	B	107	22.327	3.275	81.863	1.00	19.35	C
ATOM	2688	CD2	TYR	B	107	22.084	4.398	81.093	1.00	19.26	C
ATOM	2689	N	VAL	B	108	20.590	7.945	81.190	1.00	16.66	N
ATOM	2690	CA	VAL	B	108	20.836	8.556	82.497	1.00	17.11	C
ATOM	2691	C	VAL	B	108	19.616	9.300	83.040	1.00	18.07	C
ATOM	2692	O	VAL	B	108	19.456	9.422	84.259	1.00	18.49	O
ATOM	2693	CB	VAL	B	108	22.115	9.446	82.547	1.00	16.82	C
ATOM	2694	CG1	VAL	B	108	23.351	8.640	82.139	1.00	16.10	C

FIG. 5SS

ATOM	2695	CG2	VAL	B	108	21.971	10.688	81.665	1.00	16.53	C
ATOM	2696	N	ARG	B	109	18.755	9.786	82.147	1.00	18.27	N
ATOM	2697	CA	ARG	B	109	17.487	10.370	82.580	1.00	18.81	C
ATOM	2698	C	ARG	B	109	16.569	9.280	83.111	1.00	19.62	C
ATOM	2699	O	ARG	B	109	15.923	9.466	84.133	1.00	19.14	O
ATOM	2700	CB	ARG	B	109	16.798	11.135	81.446	1.00	18.22	C
ATOM	2701	CG	ARG	B	109	17.355	12.513	81.226	1.00	17.93	C
ATOM	2702	CD	ARG	B	109	16.975	13.100	79.893	1.00	17.88	C
ATOM	2703	NE	ARG	B	109	17.628	14.380	79.669	1.00	17.68	N
ATOM	2704	CZ	ARG	B	109	17.462	15.125	78.584	1.00	18.11	C
ATOM	2705	NH1	ARG	B	109	16.652	14.718	77.607	1.00	16.86	N
ATOM	2706	NH2	ARG	B	109	18.108	16.279	78.475	1.00	17.17	N
ATOM	2707	N	GLU	B	110	16.541	8.140	82.417	1.00	21.12	N
ATOM	2708	CA	GLU	B	110	15.657	7.028	82.760	1.00	22.63	C
ATOM	2709	C	GLU	B	110	16.123	6.232	83.980	1.00	22.58	C
ATOM	2710	O	GLU	B	110	15.310	5.692	84.722	1.00	22.68	O
ATOM	2711	CB	GLU	B	110	15.497	6.091	81.560	1.00	23.54	C
ATOM	2712	CG	GLU	B	110	14.269	5.197	81.625	1.00	26.48	C
ATOM	2713	CD	GLU	B	110	14.147	4.265	80.437	1.00	29.89	C
ATOM	2714	OE1	GLU	B	110	13.825	3.072	80.655	1.00	32.31	O
ATOM	2715	OE2	GLU	B	110	14.362	4.719	79.286	1.00	31.50	O
ATOM	2716	N	HIS	B	111	17.432	6.163	84.187	1.00	23.09	N
ATOM	2717	CA	HIS	B	111	17.984	5.295	85.227	1.00	22.79	C
ATOM	2718	C	HIS	B	111	18.700	6.039	86.349	1.00	23.14	C
ATOM	2719	O	HIS	B	111	19.431	5.434	87.139	1.00	23.70	O
ATOM	2720	CB	HIS	B	111	18.868	4.227	84.596	1.00	22.31	C
ATOM	2721	CG	HIS	B	111	18.102	3.224	83.792	1.00	22.56	C
ATOM	2722	ND1	HIS	B	111	18.223	3.116	82.424	1.00	22.37	N
ATOM	2723	CE1	HIS	B	111	17.422	2.161	81.988	1.00	23.23	C
ATOM	2724	NE2	HIS	B	111	16.778	1.651	83.025	1.00	23.00	N
ATOM	2725	CD2	HIS	B	111	17.183	2.302	84.163	1.00	22.67	C
ATOM	2726	N	LYS	B	112	18.440	7.343	86.432	1.00	23.33	N
ATOM	2727	CA	LYS	B	112	18.998	8.219	87.462	1.00	24.62	C
ATOM	2728	C	LYS	B	112	19.122	7.579	88.861	1.00	25.25	C
ATOM	2729	O	LYS	B	112	20.185	7.649	89.489	1.00	25.69	O
ATOM	2730	CB	LYS	B	112	18.174	9.511	87.553	1.00	24.52	C
ATOM	2731	N	ASP	B	113	18.047	6.952	89.331	1.00	25.01	N
ATOM	2732	CA	ASP	B	113	18.010	6.398	90.682	1.00	25.77	C
ATOM	2733	C	ASP	B	113	18.918	5.182	90.876	1.00	25.63	C
ATOM	2734	O	ASP	B	113	19.302	4.876	91.999	1.00	25.32	O
ATOM	2735	CB	ASP	B	113	16.569	6.057	91.100	1.00	25.80	C
ATOM	2736	N	ASN	B	114	19.258	4.503	89.784	1.00	25.68	N
ATOM	2737	CA	ASN	B	114	20.008	3.250	89.854	1.00	25.96	C
ATOM	2738	C	ASN	B	114	21.384	3.254	89.153	1.00	25.63	C
ATOM	2739	O	ASN	B	114	21.887	2.186	88.791	1.00	26.34	O
ATOM	2740	CB	ASN	B	114	19.177	2.081	89.281	1.00	26.21	C
ATOM	2741	CG	ASN	B	114	17.848	1.869	89.996	1.00	27.41	C
ATOM	2742	OD1	ASN	B	114	16.875	1.437	89.376	1.00	28.66	O
ATOM	2743	ND2	ASN	B	114	17.801	2.151	91.293	1.00	28.65	N
ATOM	2744	N	ILE	B	115	21.991	4.421	88.951	1.00	24.55	N
ATOM	2745	CA	ILE	B	115	23.323	4.467	88.329	1.00	23.47	C
ATOM	2746	C	ILE	B	115	24.391	4.764	89.372	1.00	22.55	C
ATOM	2747	O	ILE	B	115	24.312	5.767	90.069	1.00	23.36	O
ATOM	2748	CB	ILE	B	115	23.385	5.512	87.180	1.00	23.35	C
ATOM	2749	CG1	ILE	B	115	22.575	5.043	85.968	1.00	22.75	C
ATOM	2750	CD1	ILE	B	115	22.255	6.152	84.979	1.00	20.82	C
ATOM	2751	CG2	ILE	B	115	24.832	5.780	86.768	1.00	23.59	C
ATOM	2752	N	GLY	B	116	25.388	3.894	89.469	1.00	21.49	N
ATOM	2753	CA	GLY	B	116	26.478	4.089	90.401	1.00	20.02	C
ATOM	2754	C	GLY	B	116	27.621	4.913	89.839	1.00	19.62	C

FIG. 5TT

ATOM	2755	O	GLY	B	116	27.713	5.155	88.632	1.00	19.06	O
ATOM	2756	N	SER	B	117	28.508	5.332	90.733	1.00	19.01	N
ATOM	2757	CA	SER	B	117	29.662	6.137	90.368	1.00	18.71	C
ATOM	2758	C	SER	B	117	30.670	5.377	89.505	1.00	18.22	C
ATOM	2759	O	SER	B	117	31.384	5.986	88.708	1.00	18.79	O
ATOM	2760	CB	SER	B	117	30.341	6.693	91.619	1.00	18.47	C
ATOM	2761	OG	SER	B	117	30.498	5.686	92.602	1.00	19.34	O
ATOM	2762	N	GLN	B	118	30.729	4.059	89.654	1.00	18.01	N
ATOM	2763	CA	GLN	B	118	31.590	3.243	88.791	1.00	17.95	C
ATOM	2764	C	GLN	B	118	31.207	3.400	87.318	1.00	17.29	C
ATOM	2765	O	GLN	B	118	32.068	3.654	86.487	1.00	17.53	O
ATOM	2766	CB	GLN	B	118	31.573	1.763	89.188	1.00	17.74	C
ATOM	2767	CG	GLN	B	118	32.547	0.906	88.383	1.00	18.17	C
ATOM	2768	CD	GLN	B	118	34.010	1.238	88.691	1.00	20.76	C
ATOM	2769	OE1	GLN	B	118	34.630	2.059	87.995	1.00	22.83	O
ATOM	2770	NE2	GLN	B	118	34.562	0.605	89.722	1.00	17.47	N
ATOM	2771	N	TYR	B	119	29.920	3.264	87.016	1.00	16.46	N
ATOM	2772	CA	TYR	B	119	29.425	3.397	85.642	1.00	16.77	C
ATOM	2773	C	TYR	B	119	29.732	4.759	85.030	1.00	15.75	C
ATOM	2774	O	TYR	B	119	30.304	4.829	83.941	1.00	16.09	O
ATOM	2775	CB	TYR	B	119	27.921	3.087	85.564	1.00	17.48	C
ATOM	2776	CG	TYR	B	119	27.619	1.617	85.669	1.00	19.94	C
ATOM	2777	CD1	TYR	B	119	27.203	0.893	84.561	1.00	22.91	C
ATOM	2778	CE1	TYR	B	119	26.940	-0.472	84.649	1.00	24.67	C
ATOM	2779	CZ	TYR	B	119	27.097	-1.115	85.861	1.00	25.23	C
ATOM	2780	OH	TYR	B	119	26.841	-2.461	85.965	1.00	27.73	O
ATOM	2781	CE2	TYR	B	119	27.516	-0.413	86.976	1.00	24.46	C
ATOM	2782	CD2	TYR	B	119	27.777	0.939	86.874	1.00	22.91	C
ATOM	2783	N	LEU	B	120	29.375	5.831	85.742	1.00	14.38	N
ATOM	2784	CA	LEU	B	120	29.575	7.197	85.252	1.00	13.81	C
ATOM	2785	C	LEU	B	120	31.025	7.502	84.900	1.00	13.16	C
ATOM	2786	O	LEU	B	120	31.301	8.053	83.842	1.00	13.76	O
ATOM	2787	CB	LEU	B	120	29.052	8.235	86.253	1.00	13.58	C
ATOM	2788	CG	LEU	B	120	27.543	8.256	86.469	1.00	12.23	C
ATOM	2789	CD1	LEU	B	120	27.223	8.790	87.859	1.00	13.28	C
ATOM	2790	CD2	LEU	B	120	26.873	9.093	85.402	1.00	12.82	C
ATOM	2791	N	LEU	B	121	31.946	7.139	85.784	1.00	12.77	N
ATOM	2792	CA	LEU	B	121	33.357	7.370	85.526	1.00	12.25	C
ATOM	2793	C	LEU	B	121	33.882	6.459	84.411	1.00	12.37	C
ATOM	2794	O	LEU	B	121	34.667	6.906	83.581	1.00	12.42	O
ATOM	2795	CB	LEU	B	121	34.184	7.252	86.804	1.00	11.74	C
ATOM	2796	CG	LEU	B	121	33.832	8.229	87.928	1.00	11.87	C
ATOM	2797	CD1	LEU	B	121	34.554	7.817	89.192	1.00	10.26	C
ATOM	2798	CD2	LEU	B	121	34.176	9.687	87.578	1.00	10.60	C
ATOM	2799	N	ASN	B	122	33.417	5.211	84.378	1.00	12.67	N
ATOM	2800	CA	ASN	B	122	33.703	4.286	83.273	1.00	13.55	C
ATOM	2801	C	ASN	B	122	33.261	4.811	81.909	1.00	13.32	C
ATOM	2802	O	ASN	B	122	33.982	4.675	80.932	1.00	13.42	O
ATOM	2803	CB	ASN	B	122	33.058	2.920	83.527	1.00	14.53	C
ATOM	2804	CG	ASN	B	122	33.879	2.048	84.471	1.00	16.39	C
ATOM	2805	OD1	ASN	B	122	33.495	0.913	84.780	1.00	18.52	O
ATOM	2806	ND2	ASN	B	122	35.016	2.563	84.916	1.00	15.66	N
ATOM	2807	N	TRP	B	123	32.077	5.415	81.853	1.00	13.17	N
ATOM	2808	CA	TRP	B	123	31.615	6.080	80.638	1.00	13.35	C
ATOM	2809	C	TRP	B	123	32.543	7.216	80.210	1.00	13.88	C
ATOM	2810	O	TRP	B	123	32.834	7.347	79.023	1.00	14.68	O
ATOM	2811	CB	TRP	B	123	30.181	6.593	80.816	1.00	12.87	C
ATOM	2812	CG	TRP	B	123	29.177	5.480	81.010	1.00	12.55	C
ATOM	2813	CD1	TRP	B	123	29.295	4.190	80.576	1.00	12.21	C
ATOM	2814	NE1	TRP	B	123	28.189	3.462	80.941	1.00	13.70	N

FIG. 5UU

ATOM	2815	CE2	TRP	B	123	27.330	4.274	81.634	1.00	12.77	C
ATOM	2816	CD2	TRP	B	123	27.924	5.558	81.697	1.00	12.01	C
ATOM	2817	CE3	TRP	B	123	27.235	6.585	82.365	1.00	11.73	C
ATOM	2818	CZ3	TRP	B	123	25.999	6.304	82.935	1.00	12.50	C
ATOM	2819	CH2	TRP	B	123	25.435	5.018	82.849	1.00	13.43	C
ATOM	2820	CZ2	TRP	B	123	26.087	3.989	82.201	1.00	12.97	C
ATOM	2821	N	CYS	B	124	33.008	8.024	81.170	1.00	14.31	N
ATOM	2822	CA	CYS	B	124	33.850	9.186	80.864	1.00	14.56	C
ATOM	2823	C	CYS	B	124	35.177	8.737	80.259	1.00	14.32	C
ATOM	2824	O	CYS	B	124	35.694	9.373	79.331	1.00	14.44	O
ATOM	2825	CB	CYS	B	124	34.130	10.030	82.109	1.00	14.44	C
ATOM	2826	SG	CYS	B	124	32.699	10.768	82.912	1.00	17.76	S
ATOM	2827	N	VAL	B	125	35.723	7.652	80.806	1.00	13.63	N
ATOM	2828	CA	VAL	B	125	36.933	7.013	80.277	1.00	13.57	C
ATOM	2829	C	VAL	B	125	36.741	6.584	78.818	1.00	13.48	C
ATOM	2830	O	VAL	B	125	37.554	6.906	77.940	1.00	13.24	O
ATOM	2831	CB	VAL	B	125	37.331	5.773	81.127	1.00	13.46	C
ATOM	2832	CG1	VAL	B	125	38.524	5.042	80.506	1.00	12.62	C
ATOM	2833	CG2	VAL	B	125	37.656	6.189	82.572	1.00	13.17	C
ATOM	2834	N	GLN	B	126	35.644	5.872	78.579	1.00	12.88	N
ATOM	2835	CA	GLN	B	126	35.363	5.273	77.290	1.00	12.38	C
ATOM	2836	C	GLN	B	126	35.129	6.332	76.223	1.00	12.46	C
ATOM	2837	O	GLN	B	126	35.630	6.211	75.108	1.00	11.87	O
ATOM	2838	CB	GLN	B	126	34.150	4.361	77.410	1.00	12.65	C
ATOM	2839	CG	GLN	B	126	34.411	3.119	78.276	1.00	13.58	C
ATOM	2840	CD	GLN	B	126	33.153	2.298	78.502	1.00	14.00	C
ATOM	2841	OE1	GLN	B	126	32.187	2.382	77.720	1.00	13.77	O
ATOM	2842	NE2	GLN	B	126	33.153	1.508	79.565	1.00	12.78	N
ATOM	2843	N	ILE	B	127	34.367	7.372	76.570	1.00	11.33	N
ATOM	2844	CA	ILE	B	127	34.153	8.458	75.642	1.00	10.94	C
ATOM	2845	C	ILE	B	127	35.494	9.127	75.323	1.00	10.87	C
ATOM	2846	O	ILE	B	127	35.782	9.391	74.153	1.00	10.42	O
ATOM	2847	CB	ILE	B	127	33.097	9.452	76.180	1.00	10.86	C
ATOM	2848	CG1	ILE	B	127	31.713	8.782	76.220	1.00	9.89	C
ATOM	2849	CD1	ILE	B	127	30.797	9.311	77.320	1.00	8.13	C
ATOM	2850	CG2	ILE	B	127	33.027	10.678	75.303	1.00	11.51	C
ATOM	2851	N	ALA	B	128	36.317	9.356	76.353	1.00	10.62	N
ATOM	2852	CA	ALA	B	128	37.653	9.929	76.165	1.00	11.48	C
ATOM	2853	C	ALA	B	128	38.542	9.041	75.283	1.00	11.99	C
ATOM	2854	O	ALA	B	128	39.309	9.554	74.474	1.00	11.95	O
ATOM	2855	CB	ALA	B	128	38.332	10.201	77.508	1.00	10.96	C
ATOM	2856	N	LYS	B	129	38.429	7.720	75.448	1.00	12.74	N
ATOM	2857	CA	LYS	B	129	39.118	6.760	74.589	1.00	14.11	C
ATOM	2858	C	LYS	B	129	38.634	6.859	73.141	1.00	14.67	C
ATOM	2859	O	LYS	B	129	39.446	6.924	72.207	1.00	14.41	O
ATOM	2860	CB	LYS	B	129	38.920	5.337	75.101	1.00	14.55	C
ATOM	2861	CG	LYS	B	129	39.789	4.989	76.285	1.00	15.79	C
ATOM	2862	CD	LYS	B	129	39.633	3.531	76.668	1.00	17.46	C
ATOM	2863	CE	LYS	B	129	40.681	3.153	77.693	1.00	18.76	C
ATOM	2864	NZ	LYS	B	129	40.137	2.204	78.705	1.00	21.51	N
ATOM	2865	N	GLY	B	130	37.313	6.884	72.960	1.00	14.43	N
ATOM	2866	CA	GLY	B	130	36.737	7.005	71.629	1.00	15.01	C
ATOM	2867	C	GLY	B	130	37.220	8.250	70.901	1.00	14.80	C
ATOM	2868	O	GLY	B	130	37.609	8.198	69.741	1.00	15.09	O
ATOM	2869	N	MET	B	131	37.211	9.369	71.612	1.00	15.03	N
ATOM	2870	CA	MET	B	131	37.609	10.673	71.075	1.00	14.67	C
ATOM	2871	C	MET	B	131	39.104	10.782	70.773	1.00	14.50	C
ATOM	2872	O	MET	B	131	39.495	11.451	69.821	1.00	13.93	O
ATOM	2873	CB	MET	B	131	37.208	11.774	72.065	1.00	14.52	C
ATOM	2874	CG	MET	B	131	35.717	12.074	72.121	1.00	13.78	C

FIG. 5VV

ATOM	2875	SD	MET	B	131	34.940	12.339	70.502	1.00	14.79	S
ATOM	2876	CE	MET	B	131	35.858	13.687	69.878	1.00	16.01	C
ATOM	2877	N	ASN	B	132	39.919	10.125	71.599	1.00	15.17	N
ATOM	2878	CA	ASN	B	132	41.367	10.057	71.420	1.00	15.77	C
ATOM	2879	C	ASN	B	132	41.741	9.276	70.173	1.00	16.20	C
ATOM	2880	O	ASN	B	132	42.738	9.594	69.510	1.00	16.12	O
ATOM	2881	CB	ASN	B	132	42.038	9.428	72.656	1.00	15.64	C
ATOM	2882	CG	ASN	B	132	43.550	9.258	72.495	1.00	16.46	C
ATOM	2883	OD1	ASN	B	132	44.280	10.222	72.251	1.00	16.30	O
ATOM	2884	ND2	ASN	B	132	44.023	8.020	72.638	1.00	17.97	N
ATOM	2885	N	TYR	B	133	40.948	8.247	69.869	1.00	16.69	N
ATOM	2886	CA	TYR	B	133	41.097	7.510	68.614	1.00	17.96	C
ATOM	2887	C	TYR	B	133	40.856	8.438	67.432	1.00	18.55	C
ATOM	2888	O	TYR	B	133	41.637	8.458	66.483	1.00	18.74	O
ATOM	2889	CB	TYR	B	133	40.140	6.321	68.547	1.00	17.70	C
ATOM	2890	CG	TYR	B	133	40.045	5.704	67.171	1.00	18.47	C
ATOM	2891	CD1	TYR	B	133	40.994	4.769	66.732	1.00	18.22	C
ATOM	2892	CE1	TYR	B	133	40.906	4.200	65.464	1.00	17.82	C
ATOM	2893	CZ	TYR	B	133	39.860	4.560	64.624	1.00	17.71	C
ATOM	2894	OH	TYR	B	133	39.766	4.007	63.377	1.00	18.07	O
ATOM	2895	CE2	TYR	B	133	38.918	5.483	65.025	1.00	17.89	C
ATOM	2896	CD2	TYR	B	133	39.011	6.053	66.300	1.00	18.32	C
ATOM	2897	N	LEU	B	134	39.773	9.210	67.504	1.00	19.23	N
ATOM	2898	CA	LEU	B	134	39.438	10.159	66.449	1.00	19.76	C
ATOM	2899	C	LEU	B	134	40.540	11.195	66.282	1.00	19.69	C
ATOM	2900	O	LEU	B	134	40.894	11.543	65.156	1.00	19.19	O
ATOM	2901	CB	LEU	B	134	38.092	10.840	66.723	1.00	19.86	C
ATOM	2902	CG	LEU	B	134	36.800	10.015	66.639	1.00	20.31	C
ATOM	2903	CD1	LEU	B	134	35.606	10.936	66.854	1.00	21.10	C
ATOM	2904	CD2	LEU	B	134	36.656	9.272	65.318	1.00	20.78	C
ATOM	2905	N	GLU	B	135	41.091	11.672	67.402	1.00	20.10	N
ATOM	2906	CA	GLU	B	135	42.221	12.598	67.347	1.00	20.27	C
ATOM	2907	C	GLU	B	135	43.437	11.965	66.678	1.00	20.05	C
ATOM	2908	O	GLU	B	135	44.058	12.592	65.832	1.00	20.59	O
ATOM	2909	CB	GLU	B	135	42.587	13.161	68.721	1.00	20.54	C
ATOM	2910	CG	GLU	B	135	43.786	14.109	68.667	1.00	21.54	C
ATOM	2911	CD	GLU	B	135	44.085	14.812	69.982	1.00	22.97	C
ATOM	2912	OE1	GLU	B	135	43.412	14.526	71.000	1.00	22.28	O
ATOM	2913	OE2	GLU	B	135	45.009	15.656	69.990	1.00	22.62	O
ATOM	2914	N	ASP	B	136	43.756	10.726	67.046	1.00	19.95	N
ATOM	2915	CA	ASP	B	136	44.869	9.997	66.449	1.00	20.02	C
ATOM	2916	C	ASP	B	136	44.740	9.871	64.941	1.00	20.16	C
ATOM	2917	O	ASP	B	136	45.741	9.952	64.226	1.00	20.42	O
ATOM	2918	CB	ASP	B	136	44.994	8.608	67.050	1.00	20.30	C
ATOM	2919	CG	ASP	B	136	45.727	8.607	68.368	1.00	20.85	C
ATOM	2920	OD1	ASP	B	136	45.631	7.578	69.065	1.00	21.59	O
ATOM	2921	OD2	ASP	B	136	46.418	9.567	68.785	1.00	20.39	O
ATOM	2922	N	ARG	B	137	43.503	9.679	64.479	1.00	20.00	N
ATOM	2923	CA	ARG	B	137	43.161	9.639	63.058	1.00	19.04	C
ATOM	2924	C	ARG	B	137	43.007	11.041	62.468	1.00	18.83	C
ATOM	2925	O	ARG	B	137	42.636	11.196	61.298	1.00	18.70	O
ATOM	2926	CB	ARG	B	137	41.860	8.859	62.862	1.00	19.57	C
ATOM	2927	CG	ARG	B	137	42.013	7.337	62.920	1.00	21.49	C
ATOM	2928	CD	ARG	B	137	42.519	6.715	61.616	1.00	24.05	C
ATOM	2929	NE	ARG	B	137	41.420	6.330	60.730	1.00	27.27	N
ATOM	2930	CZ	ARG	B	137	40.949	7.083	59.745	1.00	28.83	C
ATOM	2931	NH1	ARG	B	137	41.473	8.278	59.498	1.00	32.73	N
ATOM	2932	NH2	ARG	B	137	39.960	6.643	58.991	1.00	28.41	N
ATOM	2933	N	ARG	B	138	43.285	12.061	63.280	1.00	18.28	N
ATOM	2934	CA	ARG	B	138	43.136	13.457	62.866	1.00	18.11	C

FIG. 5WW

ATOM	2935	C	ARG	B	138	41.753	13.696	62.265	1.00	18.18	C
ATOM	2936	O	ARG	B	138	41.599	14.375	61.245	1.00	18.83	O
ATOM	2937	CB	ARG	B	138	44.260	13.886	61.907	1.00	18.64	C
ATOM	2938	N	LEU	B	139	40.748	13.112	62.909	1.00	17.18	N
ATOM	2939	CA	LEU	B	139	39.364	13.363	62.564	1.00	16.85	C
ATOM	2940	C	LEU	B	139	38.742	14.200	63.695	1.00	16.74	C
ATOM	2941	O	LEU	B	139	38.939	13.915	64.888	1.00	16.86	O
ATOM	2942	CB	LEU	B	139	38.606	12.042	62.343	1.00	16.37	C
ATOM	2943	CG	LEU	B	139	39.128	11.058	61.275	1.00	16.51	C
ATOM	2944	CD1	LEU	B	139	38.504	9.657	61.383	1.00	13.92	C
ATOM	2945	CD2	LEU	B	139	38.946	11.626	59.857	1.00	17.30	C
ATOM	2946	N	VAL	B	140	38.023	15.247	63.317	1.00	16.28	N
ATOM	2947	CA	VAL	B	140	37.331	16.094	64.280	1.00	16.21	C
ATOM	2948	C	VAL	B	140	35.846	15.702	64.276	1.00	16.75	C
ATOM	2949	O	VAL	B	140	35.207	15.662	63.217	1.00	16.46	O
ATOM	2950	CB	VAL	B	140	37.542	17.598	63.949	1.00	16.72	C
ATOM	2951	CG1	VAL	B	140	36.636	18.499	64.817	1.00	16.04	C
ATOM	2952	CG2	VAL	B	140	39.055	17.998	64.089	1.00	14.20	C
ATOM	2953	N	HIS	B	141	35.305	15.387	65.453	1.00	17.21	N
ATOM	2954	CA	HIS	B	141	33.905	14.984	65.552	1.00	17.28	C
ATOM	2955	C	HIS	B	141	32.964	16.159	65.378	1.00	17.55	C
ATOM	2956	O	HIS	B	141	32.042	16.084	64.563	1.00	17.43	O
ATOM	2957	CB	HIS	B	141	33.598	14.248	66.860	1.00	17.34	C
ATOM	2958	CG	HIS	B	141	32.215	13.672	66.905	1.00	17.38	C
ATOM	2959	ND1	HIS	B	141	31.081	14.458	66.950	1.00	17.18	N
ATOM	2960	CE1	HIS	B	141	30.011	13.683	66.969	1.00	17.34	C
ATOM	2961	NE2	HIS	B	141	30.408	12.424	66.933	1.00	16.82	N
ATOM	2962	CD2	HIS	B	141	31.781	12.390	66.885	1.00	17.27	C
ATOM	2963	N	ARG	B	142	33.171	17.214	66.175	1.00	17.67	N
ATOM	2964	CA	ARG	B	142	32.470	18.491	66.000	1.00	18.29	C
ATOM	2965	C	ARG	B	142	31.061	18.558	66.626	1.00	18.17	C
ATOM	2966	O	ARG	B	142	30.499	19.643	66.791	1.00	18.43	O
ATOM	2967	CB	ARG	B	142	32.468	18.854	64.506	1.00	19.02	C
ATOM	2968	CG	ARG	B	142	31.723	20.091	64.097	1.00	21.75	C
ATOM	2969	CD	ARG	B	142	31.557	20.214	62.586	1.00	25.73	C
ATOM	2970	NE	ARG	B	142	32.837	20.240	61.876	1.00	27.56	N
ATOM	2971	CZ	ARG	B	142	33.180	21.185	61.008	1.00	29.58	C
ATOM	2972	NH1	ARG	B	142	32.337	22.187	60.744	1.00	30.12	N
ATOM	2973	NH2	ARG	B	142	34.360	21.135	60.402	1.00	28.92	N
ATOM	2974	N	ASP	B	143	30.495	17.414	66.996	1.00	17.99	N
ATOM	2975	CA	ASP	B	143	29.174	17.404	67.624	1.00	18.25	C
ATOM	2976	C	ASP	B	143	29.074	16.409	68.781	1.00	17.20	C
ATOM	2977	O	ASP	B	143	28.086	15.690	68.902	1.00	16.71	O
ATOM	2978	CB	ASP	B	143	28.082	17.135	66.574	1.00	19.03	C
ATOM	2979	CG	ASP	B	143	26.679	17.479	67.062	1.00	20.93	C
ATOM	2980	OD1	ASP	B	143	26.511	18.036	68.179	1.00	20.76	O
ATOM	2981	OD2	ASP	B	143	25.665	17.228	66.365	1.00	24.70	O
ATOM	2982	N	LEU	B	144	30.093	16.383	69.637	1.00	16.54	N
ATOM	2983	CA	LEU	B	144	30.066	15.517	70.814	1.00	15.72	C
ATOM	2984	C	LEU	B	144	29.096	16.081	71.866	1.00	15.06	C
ATOM	2985	O	LEU	B	144	29.178	17.257	72.243	1.00	14.74	O
ATOM	2986	CB	LEU	B	144	31.477	15.329	71.394	1.00	15.69	C
ATOM	2987	CG	LEU	B	144	31.643	14.508	72.680	1.00	16.01	C
ATOM	2988	CD1	LEU	B	144	31.310	13.046	72.448	1.00	16.11	C
ATOM	2989	CD2	LEU	B	144	33.061	14.634	73.200	1.00	16.80	C
ATOM	2990	N	ALA	B	145	28.168	15.226	72.292	1.00	14.04	N
ATOM	2991	CA	ALA	B	145	27.172	15.517	73.332	1.00	13.13	C
ATOM	2992	C	ALA	B	145	26.646	14.179	73.840	1.00	12.94	C
ATOM	2993	O	ALA	B	145	26.835	13.149	73.183	1.00	12.84	O
ATOM	2994	CB	ALA	B	145	26.024	16.361	72.775	1.00	12.20	C

FIG. 5XX



ATOM	2995	N	ALA	B	146	25.982	14.183	74.996	1.00	12.87	N
ATOM	2996	CA	ALA	B	146	25.345	12.969	75.496	1.00	13.05	C
ATOM	2997	C	ALA	B	146	24.318	12.367	74.514	1.00	13.32	C
ATOM	2998	O	ALA	B	146	24.165	11.147	74.455	1.00	13.18	O
ATOM	2999	CB	ALA	B	146	24.723	13.205	76.867	1.00	12.55	C
ATOM	3000	N	ARG	B	147	23.620	13.215	73.754	1.00	13.75	N
ATOM	3001	CA	ARG	B	147	22.671	12.742	72.730	1.00	15.11	C
ATOM	3002	C	ARG	B	147	23.342	11.909	71.642	1.00	15.27	C
ATOM	3003	O	ARG	B	147	22.711	11.061	71.022	1.00	16.36	O
ATOM	3004	CB	ARG	B	147	21.888	13.907	72.098	1.00	15.25	C
ATOM	3005	CG	ARG	B	147	22.692	14.779	71.128	1.00	16.01	C
ATOM	3006	CD	ARG	B	147	21.951	16.033	70.657	1.00	15.00	C
ATOM	3007	NE	ARG	B	147	22.881	17.005	70.105	1.00	15.92	N
ATOM	3008	CZ	ARG	B	147	23.429	18.008	70.792	1.00	15.52	C
ATOM	3009	NH1	ARG	B	147	23.138	18.207	72.070	1.00	14.10	N
ATOM	3010	NH2	ARG	B	147	24.266	18.827	70.184	1.00	17.23	N
ATOM	3011	N	ASN	B	148	24.633	12.139	71.434	1.00	16.22	N
ATOM	3012	CA	ASN	B	148	25.398	11.423	70.417	1.00	16.00	C
ATOM	3013	C	ASN	B	148	26.327	10.372	70.993	1.00	15.46	C
ATOM	3014	O	ASN	B	148	27.364	10.065	70.405	1.00	14.79	O
ATOM	3015	CB	ASN	B	148	26.155	12.421	69.539	1.00	16.57	C
ATOM	3016	CG	ASN	B	148	25.218	13.279	68.717	1.00	17.29	C
ATOM	3017	OD1	ASN	B	148	25.352	14.499	68.674	1.00	18.79	O
ATOM	3018	ND2	ASN	B	148	24.247	12.641	68.072	1.00	17.30	N
ATOM	3019	N	VAL	B	149	25.952	9.839	72.158	1.00	15.09	N
ATOM	3020	CA	VAL	B	149	26.628	8.675	72.729	1.00	14.53	C
ATOM	3021	C	VAL	B	149	25.581	7.595	72.925	1.00	14.66	C
ATOM	3022	O	VAL	B	149	24.496	7.859	73.436	1.00	15.29	O
ATOM	3023	CB	VAL	B	149	27.372	8.995	74.056	1.00	14.48	C
ATOM	3024	CG1	VAL	B	149	28.010	7.749	74.644	1.00	14.28	C
ATOM	3025	CG2	VAL	B	149	28.449	10.061	73.842	1.00	13.23	C
ATOM	3026	N	LEU	B	150	25.896	6.386	72.479	1.00	15.22	N
ATOM	3027	CA	LEU	B	150	24.958	5.270	72.537	1.00	14.96	C
ATOM	3028	C	LEU	B	150	25.418	4.214	73.514	1.00	15.33	C
ATOM	3029	O	LEU	B	150	26.604	4.108	73.816	1.00	15.82	O
ATOM	3030	CB	LEU	B	150	24.756	4.654	71.150	1.00	13.86	C
ATOM	3031	CG	LEU	B	150	24.285	5.582	70.025	1.00	14.68	C
ATOM	3032	CD1	LEU	B	150	24.130	4.811	68.707	1.00	13.79	C
ATOM	3033	CD2	LEU	B	150	22.992	6.348	70.375	1.00	13.31	C
ATOM	3034	N	VAL	B	151	24.460	3.423	73.982	1.00	16.46	N
ATOM	3035	CA	VAL	B	151	24.675	2.401	74.999	1.00	17.20	C
ATOM	3036	C	VAL	B	151	24.583	1.004	74.372	1.00	17.68	C
ATOM	3037	O	VAL	B	151	23.496	0.543	74.042	1.00	18.67	O
ATOM	3038	CB	VAL	B	151	23.629	2.540	76.139	1.00	17.11	C
ATOM	3039	CG1	VAL	B	151	23.949	1.615	77.315	1.00	18.23	C
ATOM	3040	CG2	VAL	B	151	23.528	3.980	76.619	1.00	16.48	C
ATOM	3041	N	LYS	B	152	25.731	0.352	74.196	1.00	18.57	N
ATOM	3042	CA	LYS	B	152	25.800	-1.036	73.734	1.00	18.95	C
ATOM	3043	C	LYS	B	152	25.396	-1.967	74.868	1.00	19.76	C
ATOM	3044	O	LYS	B	152	24.471	-2.768	74.730	1.00	19.89	O
ATOM	3045	CB	LYS	B	152	27.217	-1.365	73.252	1.00	19.11	C
ATOM	3046	CG	LYS	B	152	27.360	-2.726	72.575	1.00	19.33	C
ATOM	3047	N	THR	B	153	26.117	-1.873	75.983	1.00	20.44	N
ATOM	3048	CA	THR	B	153	25.679	-2.475	77.244	1.00	21.72	C
ATOM	3049	C	THR	B	153	25.777	-1.359	78.262	1.00	21.90	C
ATOM	3050	O	THR	B	153	26.413	-0.348	77.981	1.00	22.30	O
ATOM	3051	CB	THR	B	153	26.555	-3.692	77.659	1.00	21.38	C
ATOM	3052	OG1	THR	B	153	27.840	-3.236	78.095	1.00	21.96	O
ATOM	3053	CG2	THR	B	153	26.870	-4.593	76.455	1.00	20.61	C
ATOM	3054	N	PRO	B	154	25.123	-1.506	79.413	1.00	22.82	N

FIG. 5YY

ATOM	3055	CA	PRO	B	154	25.261	-0.537	80.508	1.00	23.06	C
ATOM	3056	C	PRO	B	154	26.712	-0.201	80.870	1.00	23.28	C
ATOM	3057	O	PRO	B	154	26.952	0.855	81.442	1.00	23.52	O
ATOM	3058	CB	PRO	B	154	24.567	-1.246	81.670	1.00	23.42	C
ATOM	3059	CG	PRO	B	154	23.496	-2.025	81.012	1.00	22.85	C
ATOM	3060	CD	PRO	B	154	24.157	-2.569	79.757	1.00	23.16	C
ATOM	3061	N	GLN	B	155	27.662	-1.065	80.536	1.00	23.65	N
ATOM	3062	CA	GLN	B	155	29.065	-0.768	80.825	1.00	24.53	C
ATOM	3063	C	GLN	B	155	29.938	-0.624	79.571	1.00	23.64	C
ATOM	3064	O	GLN	B	155	31.161	-0.693	79.648	1.00	24.23	O
ATOM	3065	CB	GLN	B	155	29.652	-1.797	81.802	1.00	25.66	C
ATOM	3066	CG	GLN	B	155	29.604	-3.224	81.294	1.00	28.59	C
ATOM	3067	CD	GLN	B	155	28.726	-4.107	82.147	1.00	31.84	C
ATOM	3068	OE1	GLN	B	155	27.497	-4.115	81.999	1.00	34.01	O
ATOM	3069	NE2	GLN	B	155	29.347	-4.860	83.041	1.00	32.93	N
ATOM	3070	N	HIS	B	156	29.301	-0.400	78.426	1.00	22.82	N
ATOM	3071	CA	HIS	B	156	30.010	-0.202	77.169	1.00	22.02	C
ATOM	3072	C	HIS	B	156	29.281	0.829	76.307	1.00	21.21	C
ATOM	3073	O	HIS	B	156	28.208	0.560	75.788	1.00	21.40	O
ATOM	3074	CB	HIS	B	156	30.182	-1.537	76.428	1.00	21.76	C
ATOM	3075	CG	HIS	B	156	30.984	-1.442	75.162	1.00	22.91	C
ATOM	3076	ND1	HIS	B	156	31.532	-0.263	74.705	1.00	22.28	N
ATOM	3077	CE1	HIS	B	156	32.168	-0.483	73.570	1.00	21.49	C
ATOM	3078	NE2	HIS	B	156	32.059	-1.764	73.273	1.00	22.52	N
ATOM	3079	CD2	HIS	B	156	31.322	-2.387	74.251	1.00	23.10	C
ATOM	3080	N	VAL	B	157	29.879	2.011	76.160	1.00	20.75	N
ATOM	3081	CA	VAL	B	157	29.285	3.081	75.362	1.00	19.33	C
ATOM	3082	C	VAL	B	157	30.135	3.428	74.141	1.00	19.44	C
ATOM	3083	O	VAL	B	157	31.324	3.095	74.083	1.00	19.26	O
ATOM	3084	CB	VAL	B	157	28.955	4.358	76.209	1.00	19.85	C
ATOM	3085	CG1	VAL	B	157	27.941	4.029	77.327	1.00	18.01	C
ATOM	3086	CG2	VAL	B	157	30.230	5.038	76.763	1.00	17.58	C
ATOM	3087	N	LYS	B	158	29.506	4.103	73.177	1.00	19.20	N
ATOM	3088	CA	LYS	B	158	30.088	4.375	71.864	1.00	18.62	C
ATOM	3089	C	LYS	B	158	29.623	5.725	71.326	1.00	18.34	C
ATOM	3090	O	LYS	B	158	28.429	6.060	71.392	1.00	17.75	O
ATOM	3091	CB	LYS	B	158	29.646	3.292	70.876	1.00	18.95	C
ATOM	3092	CG	LYS	B	158	30.759	2.430	70.330	1.00	20.37	C
ATOM	3093	CD	LYS	B	158	30.330	0.978	70.248	1.00	21.15	C
ATOM	3094	CE	LYS	B	158	30.359	0.490	68.827	1.00	22.24	C
ATOM	3095	NZ	LYS	B	158	31.698	-0.008	68.384	1.00	24.66	N
ATOM	3096	N	ILE	B	159	30.562	6.481	70.770	1.00	17.82	N
ATOM	3097	CA	ILE	B	159	30.259	7.758	70.147	1.00	18.47	C
ATOM	3098	C	ILE	B	159	29.677	7.522	68.761	1.00	18.97	C
ATOM	3099	O	ILE	B	159	30.229	6.770	67.950	1.00	19.06	O
ATOM	3100	CB	ILE	B	159	31.524	8.654	70.082	1.00	18.12	C
ATOM	3101	CG1	ILE	B	159	31.978	9.028	71.491	1.00	18.56	C
ATOM	3102	CD1	ILE	B	159	33.479	8.986	71.658	1.00	21.02	C
ATOM	3103	CG2	ILE	B	159	31.267	9.926	69.289	1.00	16.71	C
ATOM	3104	N	THR	B	160	28.556	8.171	68.491	1.00	19.88	N
ATOM	3105	CA	THR	B	160	27.917	8.051	67.193	1.00	20.98	C
ATOM	3106	C	THR	B	160	27.820	9.407	66.487	1.00	22.04	C
ATOM	3107	O	THR	B	160	28.242	10.431	67.038	1.00	21.56	O
ATOM	3108	CB	THR	B	160	26.550	7.358	67.345	1.00	20.81	C
ATOM	3109	OG1	THR	B	160	26.034	7.011	66.055	1.00	21.04	O
ATOM	3110	CG2	THR	B	160	25.507	8.315	67.906	1.00	21.77	C
ATOM	3111	N	ASP	B	161	27.312	9.380	65.251	1.00	23.57	N
ATOM	3112	CA	ASP	B	161	26.982	10.564	64.452	1.00	25.46	C
ATOM	3113	C	ASP	B	161	28.185	11.368	63.951	1.00	25.96	C
ATOM	3114	O	ASP	B	161	28.025	12.494	63.468	1.00	25.51	O

FIG. 5ZZ

ATOM	3115	CB	ASP	B	161	25.965	11.474	65.178	1.00	25.64	C
ATOM	3116	CG	ASP	B	161	24.518	11.006	64.995	1.00	27.57	C
ATOM	3117	OD1	ASP	B	161	24.306	9.900	64.456	1.00	27.77	O
ATOM	3118	OD2	ASP	B	161	23.523	11.676	65.359	1.00	28.44	O
ATOM	3119	N	PHE	B	162	29.382	10.804	64.044	1.00	27.00	N
ATOM	3120	CA	PHE	B	162	30.544	11.501	63.497	1.00	28.97	C
ATOM	3121	C	PHE	B	162	30.435	11.591	61.968	1.00	29.91	C
ATOM	3122	O	PHE	B	162	30.004	10.635	61.304	1.00	29.51	O
ATOM	3123	CB	PHE	B	162	31.856	10.854	63.947	1.00	29.25	C
ATOM	3124	CG	PHE	B	162	32.403	9.882	62.975	1.00	30.69	C
ATOM	3125	CD1	PHE	B	162	31.964	8.564	62.983	1.00	32.77	C
ATOM	3126	CE1	PHE	B	162	32.443	7.661	62.069	1.00	32.93	C
ATOM	3127	CZ	PHE	B	162	33.389	8.085	61.139	1.00	33.64	C
ATOM	3128	CE2	PHE	B	162	33.823	9.403	61.114	1.00	31.87	C
ATOM	3129	CD2	PHE	B	162	33.334	10.286	62.029	1.00	31.34	C
ATOM	3130	N	GLY	B	163	30.805	12.749	61.427	1.00	30.91	N
ATOM	3131	CA	GLY	B	163	30.627	13.030	60.014	1.00	33.09	C
ATOM	3132	C	GLY	B	163	29.326	13.741	59.666	1.00	34.48	C
ATOM	3133	O	GLY	B	163	29.259	14.456	58.661	1.00	34.96	O
ATOM	3134	N	LEU	B	164	28.301	13.559	60.498	1.00	36.01	N
ATOM	3135	CA	LEU	B	164	26.950	14.040	60.201	1.00	37.70	C
ATOM	3136	C	LEU	B	164	26.807	15.557	60.302	1.00	39.33	C
ATOM	3137	O	LEU	B	164	25.954	16.152	59.642	1.00	39.00	O
ATOM	3138	CB	LEU	B	164	25.926	13.344	61.104	1.00	37.52	C
ATOM	3139	CG	LEU	B	164	24.988	12.306	60.470	1.00	37.49	C
ATOM	3140	CD1	LEU	B	164	25.705	11.428	59.448	1.00	37.55	C
ATOM	3141	CD2	LEU	B	164	24.338	11.452	61.533	1.00	36.19	C
ATOM	3142	N	ALA	B	165	27.640	16.172	61.136	1.00	41.57	N
ATOM	3143	CA	ALA	B	165	27.680	17.626	61.263	1.00	43.70	C
ATOM	3144	C	ALA	B	165	28.175	18.244	59.961	1.00	44.90	C
ATOM	3145	O	ALA	B	165	27.652	19.264	59.513	1.00	45.48	O
ATOM	3146	CB	ALA	B	165	28.576	18.038	62.431	1.00	43.57	C
ATOM	3147	N	LYS	B	166	29.178	17.606	59.360	1.00	46.41	N
ATOM	3148	CA	LYS	B	166	29.720	18.026	58.075	1.00	47.53	C
ATOM	3149	C	LYS	B	166	28.697	17.814	56.972	1.00	48.33	C
ATOM	3150	O	LYS	B	166	28.476	18.706	56.149	1.00	49.23	O
ATOM	3151	CB	LYS	B	166	30.999	17.248	57.753	1.00	47.79	C
ATOM	3152	N	LEU	B	167	28.073	16.635	56.964	1.00	48.68	N
ATOM	3153	CA	LEU	B	167	27.097	16.284	55.941	1.00	48.79	C
ATOM	3154	C	LEU	B	167	25.858	17.172	55.989	1.00	49.10	C
ATOM	3155	O	LEU	B	167	25.453	17.733	54.967	1.00	49.24	O
ATOM	3156	CB	LEU	B	167	26.701	14.809	56.056	1.00	49.03	C
ATOM	3157	CG	LEU	B	167	27.548	13.783	55.293	1.00	49.18	C
ATOM	3158	CD1	LEU	B	167	26.913	12.395	55.361	1.00	48.70	C
ATOM	3159	CD2	LEU	B	167	27.771	14.203	53.837	1.00	49.44	C
ATOM	3160	N	LEU	B	168	25.271	17.313	57.176	1.00	49.06	N
ATOM	3161	CA	LEU	B	168	24.001	18.024	57.324	1.00	49.05	C
ATOM	3162	C	LEU	B	168	24.163	19.409	57.948	1.00	49.23	C
ATOM	3163	O	LEU	B	168	25.140	20.115	57.683	1.00	49.32	O
ATOM	3164	CB	LEU	B	168	23.007	17.185	58.136	1.00	49.07	C
ATOM	3165	CG	LEU	B	168	22.897	15.681	57.853	1.00	48.90	C
ATOM	3166	CD1	LEU	B	168	21.821	15.067	58.719	1.00	49.15	C
ATOM	3167	CD2	LEU	B	168	22.615	15.391	56.383	1.00	49.34	C
ATOM	3168	N	VAL	B	182	24.642	25.135	65.216	1.00	30.57	N
ATOM	3169	CA	VAL	B	182	23.318	24.973	65.813	1.00	30.48	C
ATOM	3170	C	VAL	B	182	23.358	24.536	67.286	1.00	29.89	C
ATOM	3171	O	VAL	B	182	22.609	25.090	68.102	1.00	31.11	O
ATOM	3172	CB	VAL	B	182	22.422	24.007	65.000	1.00	30.78	C
ATOM	3173	N	PRO	B	183	24.217	23.572	67.641	1.00	28.74	N
ATOM	3174	CA	PRO	B	183	24.313	23.126	69.034	1.00	26.76	C

FIG. 5AAA

ATOM	3175	C	PRO	B	183	25.275	24.027	69.802	1.00	24.78	C
ATOM	3176	O	PRO	B	183	26.283	23.569	70.355	1.00	23.84	O
ATOM	3177	CB	PRO	B	183	24.866	21.707	68.905	1.00	27.33	C
ATOM	3178	CG	PRO	B	183	25.709	21.733	67.648	1.00	28.32	C
ATOM	3179	CD	PRO	B	183	25.170	22.844	66.776	1.00	28.73	C
ATOM	3180	N	ILE	B	184	24.934	25.313	69.830	1.00	22.44	N
ATOM	3181	CA	ILE	B	184	25.755	26.352	70.446	1.00	20.73	C
ATOM	3182	C	ILE	B	184	26.263	25.982	71.850	1.00	19.72	C
ATOM	3183	O	ILE	B	184	27.400	26.301	72.203	1.00	19.10	O
ATOM	3184	CB	ILE	B	184	24.975	27.706	70.465	1.00	20.48	C
ATOM	3185	CG1	ILE	B	184	24.634	28.179	69.038	1.00	21.10	C
ATOM	3186	CD1	ILE	B	184	25.821	28.262	68.097	1.00	21.14	C
ATOM	3187	CG2	ILE	B	184	25.742	28.784	71.215	1.00	19.99	C
ATOM	3188	N	LYS	B	185	25.430	25.294	72.630	1.00	18.51	N
ATOM	3189	CA	LYS	B	185	25.724	25.044	74.046	1.00	17.63	C
ATOM	3190	C	LYS	B	185	26.772	23.959	74.314	1.00	17.32	C
ATOM	3191	O	LYS	B	185	27.221	23.790	75.450	1.00	17.41	O
ATOM	3192	CB	LYS	B	185	24.433	24.765	74.817	1.00	17.72	C
ATOM	3193	CG	LYS	B	185	23.580	26.002	75.013	1.00	16.63	C
ATOM	3194	CD	LYS	B	185	22.196	25.655	75.491	1.00	15.05	C
ATOM	3195	CE	LYS	B	185	21.315	26.885	75.523	1.00	13.12	C
ATOM	3196	NZ	LYS	B	185	20.340	26.831	76.661	1.00	12.44	N
ATOM	3197	N	TRP	B	186	27.170	23.240	73.265	1.00	17.19	N
ATOM	3198	CA	TRP	B	186	28.212	22.218	73.370	1.00	16.56	C
ATOM	3199	C	TRP	B	186	29.500	22.701	72.696	1.00	17.00	C
ATOM	3200	O	TRP	B	186	30.542	22.049	72.777	1.00	16.89	O
ATOM	3201	CB	TRP	B	186	27.735	20.894	72.752	1.00	15.17	C
ATOM	3202	CG	TRP	B	186	26.875	20.100	73.683	1.00	13.57	C
ATOM	3203	CD1	TRP	B	186	27.269	19.055	74.482	1.00	12.74	C
ATOM	3204	NE1	TRP	B	186	26.201	18.591	75.214	1.00	11.84	N
ATOM	3205	CE2	TRP	B	186	25.091	19.329	74.898	1.00	10.92	C
ATOM	3206	CD2	TRP	B	186	25.478	20.282	73.928	1.00	10.84	C
ATOM	3207	CE3	TRP	B	186	24.510	21.171	73.441	1.00	11.80	C
ATOM	3208	CZ3	TRP	B	186	23.204	21.082	73.925	1.00	11.60	C
ATOM	3209	CH2	TRP	B	186	22.850	20.117	74.878	1.00	11.91	C
ATOM	3210	CZ2	TRP	B	186	23.780	19.232	75.379	1.00	12.23	C
ATOM	3211	N	MET	B	187	29.417	23.846	72.027	1.00	17.15	N
ATOM	3212	CA	MET	B	187	30.534	24.342	71.222	1.00	17.93	C
ATOM	3213	C	MET	B	187	31.559	25.129	72.039	1.00	17.47	C
ATOM	3214	O	MET	B	187	31.201	25.940	72.898	1.00	17.04	O
ATOM	3215	CB	MET	B	187	30.030	25.195	70.054	1.00	18.13	C
ATOM	3216	CG	MET	B	187	29.294	24.410	68.960	1.00	20.34	C
ATOM	3217	SD	MET	B	187	28.350	25.493	67.822	1.00	23.46	S
ATOM	3218	CE	MET	B	187	29.652	26.213	66.933	1.00	22.27	C
ATOM	3219	N	ALA	B	188	32.836	24.862	71.769	1.00	17.52	N
ATOM	3220	CA	ALA	B	188	33.933	25.698	72.256	1.00	17.56	C
ATOM	3221	C	ALA	B	188	33.760	27.120	71.735	1.00	17.32	C
ATOM	3222	O	ALA	B	188	33.158	27.316	70.677	1.00	17.45	O
ATOM	3223	CB	ALA	B	188	35.246	25.129	71.796	1.00	17.47	C
ATOM	3224	N	LEU	B	189	34.266	28.107	72.474	1.00	18.04	N
ATOM	3225	CA	LEU	B	189	34.093	29.523	72.092	1.00	17.98	C
ATOM	3226	C	LEU	B	189	34.634	29.852	70.697	1.00	18.25	C
ATOM	3227	O	LEU	B	189	34.030	30.646	69.971	1.00	18.68	O
ATOM	3228	CB	LEU	B	189	34.694	30.484	73.130	1.00	17.64	C
ATOM	3229	CG	LEU	B	189	34.454	31.989	72.852	1.00	17.66	C
ATOM	3230	CD1	LEU	B	189	32.978	32.404	72.987	1.00	14.66	C
ATOM	3231	CD2	LEU	B	189	35.333	32.878	73.713	1.00	16.44	C
ATOM	3232	N	GLU	B	190	35.758	29.235	70.326	1.00	17.93	N
ATOM	3233	CA	GLU	B	190	36.374	29.452	69.013	1.00	17.93	C
ATOM	3234	C	GLU	B	190	35.531	28.862	67.878	1.00	18.84	C

FIG. 5BBB

ATOM	3235	O	GLU	B	190	35.630	29.291	66.721	1.00	18.21	O
ATOM	3236	CB	GLU	B	190	37.816	28.917	68.981	1.00	17.55	C
ATOM	3237	CG	GLU	B	190	37.946	27.399	69.036	1.00	15.77	C
ATOM	3238	CD	GLU	B	190	38.074	26.860	70.443	1.00	14.66	C
ATOM	3239	OE1	GLU	B	190	38.558	25.714	70.591	1.00	15.90	O
ATOM	3240	OE2	GLU	B	190	37.682	27.557	71.401	1.00	13.45	O
ATOM	3241	N	SER	B	191	34.685	27.892	68.229	1.00	19.59	N
ATOM	3242	CA	SER	B	191	33.729	27.315	67.284	1.00	20.51	C
ATOM	3243	C	SER	B	191	32.535	28.237	67.024	1.00	21.04	C
ATOM	3244	O	SER	B	191	32.108	28.370	65.877	1.00	22.17	O
ATOM	3245	CB	SER	B	191	33.251	25.946	67.769	1.00	20.44	C
ATOM	3246	OG	SER	B	191	34.347	25.079	67.989	1.00	19.95	O
ATOM	3247	N	ILE	B	192	31.996	28.864	68.073	1.00	20.89	N
ATOM	3248	CA	ILE	B	192	30.862	29.775	67.917	1.00	21.01	C
ATOM	3249	C	ILE	B	192	31.264	31.046	67.173	1.00	21.77	C
ATOM	3250	O	ILE	B	192	30.579	31.476	66.246	1.00	21.72	O
ATOM	3251	CB	ILE	B	192	30.235	30.178	69.277	1.00	20.75	C
ATOM	3252	CG1	ILE	B	192	29.902	28.948	70.128	1.00	20.56	C
ATOM	3253	CD1	ILE	B	192	29.511	29.265	71.554	1.00	20.43	C
ATOM	3254	CG2	ILE	B	192	28.981	31.008	69.033	1.00	19.75	C
ATOM	3255	N	LEU	B	193	32.372	31.647	67.601	1.00	21.81	N
ATOM	3256	CA	LEU	B	193	32.801	32.922	67.062	1.00	22.13	C
ATOM	3257	C	LEU	B	193	33.411	32.815	65.660	1.00	22.73	C
ATOM	3258	O	LEU	B	193	33.131	33.655	64.804	1.00	23.38	O
ATOM	3259	CB	LEU	B	193	33.760	33.617	68.034	1.00	21.79	C
ATOM	3260	CG	LEU	B	193	33.213	34.093	69.392	1.00	20.95	C
ATOM	3261	CD1	LEU	B	193	34.338	34.710	70.241	1.00	20.07	C
ATOM	3262	CD2	LEU	B	193	32.051	35.078	69.236	1.00	20.51	C
ATOM	3263	N	HIS	B	194	34.212	31.777	65.415	1.00	23.10	N
ATOM	3264	CA	HIS	B	194	35.023	31.709	64.201	1.00	23.16	C
ATOM	3265	C	HIS	B	194	34.867	30.436	63.390	1.00	24.53	C
ATOM	3266	O	HIS	B	194	35.592	30.231	62.409	1.00	25.58	O
ATOM	3267	CB	HIS	B	194	36.504	31.882	64.546	1.00	22.41	C
ATOM	3268	CG	HIS	B	194	36.782	32.994	65.507	1.00	20.63	C
ATOM	3269	ND1	HIS	B	194	37.541	32.818	66.642	1.00	20.09	N
ATOM	3270	CE1	HIS	B	194	37.622	33.964	67.298	1.00	19.64	C
ATOM	3271	NE2	HIS	B	194	36.947	34.878	66.622	1.00	18.91	N
ATOM	3272	CD2	HIS	B	194	36.416	34.299	65.496	1.00	19.45	C
ATOM	3273	N	ARG	B	195	33.937	29.575	63.789	1.00	25.55	N
ATOM	3274	CA	ARG	B	195	33.792	28.250	63.171	1.00	26.11	C
ATOM	3275	C	ARG	B	195	35.124	27.493	63.036	1.00	25.03	C
ATOM	3276	O	ARG	B	195	35.371	26.843	62.024	1.00	25.43	O
ATOM	3277	CB	ARG	B	195	33.072	28.342	61.816	1.00	27.35	C
ATOM	3278	CG	ARG	B	195	31.648	28.872	61.889	1.00	30.34	C
ATOM	3279	CD	ARG	B	195	31.491	30.297	61.356	1.00	35.48	C
ATOM	3280	NE	ARG	B	195	30.871	31.192	62.342	1.00	38.85	N
ATOM	3281	CZ	ARG	B	195	29.715	31.832	62.163	1.00	40.63	C
ATOM	3282	NH1	ARG	B	195	29.239	32.622	63.122	1.00	41.26	N
ATOM	3283	NH2	ARG	B	195	29.036	31.693	61.029	1.00	41.16	N
ATOM	3284	N	ILE	B	196	35.973	27.586	64.061	1.00	23.94	N
ATOM	3285	CA	ILE	B	196	37.173	26.753	64.156	1.00	22.84	C
ATOM	3286	C	ILE	B	196	36.864	25.477	64.933	1.00	22.78	C
ATOM	3287	O	ILE	B	196	36.369	25.522	66.061	1.00	22.75	O
ATOM	3288	CB	ILE	B	196	38.350	27.499	64.835	1.00	22.62	C
ATOM	3289	CG1	ILE	B	196	38.796	28.704	64.001	1.00	22.45	C
ATOM	3290	CD1	ILE	B	196	39.518	29.751	64.809	1.00	21.32	C
ATOM	3291	CG2	ILE	B	196	39.532	26.540	65.094	1.00	21.39	C
ATOM	3292	N	TYR	B	197	37.179	24.343	64.321	1.00	21.98	N
ATOM	3293	CA	TYR	B	197	36.925	23.056	64.925	1.00	21.05	C
ATOM	3294	C	TYR	B	197	38.201	22.241	64.951	1.00	19.95	C

FIG. 5CCC

ATOM	3295	O	TYR	B	197	38.829	22.027	63.913	1.00	19.38	O
ATOM	3296	CB	TYR	B	197	35.844	22.317	64.153	1.00	21.43	C
ATOM	3297	CG	TYR	B	197	34.476	22.939	64.268	1.00	23.34	C
ATOM	3298	CD1	TYR	B	197	33.623	22.596	65.319	1.00	23.78	C
ATOM	3299	CE1	TYR	B	197	32.352	23.160	65.429	1.00	24.21	C
ATOM	3300	CZ	TYR	B	197	31.926	24.064	64.476	1.00	25.67	C
ATOM	3301	OH	TYR	B	197	30.669	24.607	64.585	1.00	28.55	O
ATOM	3302	CE2	TYR	B	197	32.755	24.432	63.418	1.00	24.67	C
ATOM	3303	CD2	TYR	B	197	34.023	23.866	63.319	1.00	24.41	C
ATOM	3304	N	THR	B	198	38.586	21.816	66.152	1.00	18.61	N
ATOM	3305	CA	THR	B	198	39.786	21.022	66.348	1.00	17.89	C
ATOM	3306	C	THR	B	198	39.526	19.955	67.400	1.00	17.66	C
ATOM	3307	O	THR	B	198	38.458	19.904	68.013	1.00	17.23	O
ATOM	3308	CB	THR	B	198	40.964	21.889	66.824	1.00	17.94	C
ATOM	3309	OG1	THR	B	198	40.676	22.388	68.138	1.00	17.72	O
ATOM	3310	CG2	THR	B	198	41.150	23.156	65.950	1.00	17.22	C
ATOM	3311	N	HIS	B	199	40.533	19.121	67.618	1.00	16.63	N
ATOM	3312	CA	HIS	B	199	40.508	18.175	68.710	1.00	16.44	C
ATOM	3313	C	HIS	B	199	40.353	18.876	70.059	1.00	15.36	C
ATOM	3314	O	HIS	B	199	39.738	18.334	70.960	1.00	15.25	O
ATOM	3315	CB	HIS	B	199	41.753	17.300	68.653	1.00	16.22	C
ATOM	3316	CG	HIS	B	199	42.050	16.792	67.277	1.00	17.04	C
ATOM	3317	ND1	HIS	B	199	43.203	17.116	66.593	1.00	16.89	N
ATOM	3318	CE1	HIS	B	199	43.187	16.528	65.409	1.00	16.93	C
ATOM	3319	NE2	HIS	B	199	42.066	15.837	65.301	1.00	17.10	N
ATOM	3320	CD2	HIS	B	199	41.336	15.986	66.454	1.00	16.83	C
ATOM	3321	N	GLN	B	200	40.880	20.093	70.175	1.00	14.89	N
ATOM	3322	CA	GLN	B	200	40.728	20.887	71.402	1.00	14.19	C
ATOM	3323	C	GLN	B	200	39.349	21.529	71.556	1.00	13.87	C
ATOM	3324	O	GLN	B	200	38.896	21.756	72.686	1.00	13.67	O
ATOM	3325	CB	GLN	B	200	41.842	21.934	71.539	1.00	14.30	C
ATOM	3326	CG	GLN	B	200	43.222	21.339	71.765	1.00	13.95	C
ATOM	3327	CD	GLN	B	200	43.252	20.383	72.949	1.00	13.26	C
ATOM	3328	OE1	GLN	B	200	43.076	19.179	72.787	1.00	15.04	O
ATOM	3329	NE2	GLN	B	200	43.459	20.919	74.131	1.00	13.53	N
ATOM	3330	N	SER	B	201	38.676	21.812	70.442	1.00	13.58	N
ATOM	3331	CA	SER	B	201	37.272	22.233	70.520	1.00	13.82	C
ATOM	3332	C	SER	B	201	36.383	21.044	70.905	1.00	14.01	C
ATOM	3333	O	SER	B	201	35.402	21.202	71.631	1.00	13.85	O
ATOM	3334	CB	SER	B	201	36.794	22.961	69.247	1.00	14.05	C
ATOM	3335	OG	SER	B	201	36.793	22.150	68.086	1.00	15.63	O
ATOM	3336	N	ASP	B	202	36.757	19.851	70.441	1.00	13.39	N
ATOM	3337	CA	ASP	B	202	36.126	18.614	70.878	1.00	12.98	C
ATOM	3338	C	ASP	B	202	36.277	18.411	72.392	1.00	12.86	C
ATOM	3339	O	ASP	B	202	35.358	17.906	73.047	1.00	12.56	O
ATOM	3340	CB	ASP	B	202	36.723	17.416	70.124	1.00	13.56	C
ATOM	3341	CG	ASP	B	202	36.026	17.145	68.793	1.00	13.85	C
ATOM	3342	OD1	ASP	B	202	36.490	16.243	68.058	1.00	13.90	O
ATOM	3343	OD2	ASP	B	202	35.011	17.769	68.403	1.00	13.40	O
ATOM	3344	N	VAL	B	203	37.435	18.792	72.941	1.00	12.00	N
ATOM	3345	CA	VAL	B	203	37.681	18.658	74.372	1.00	12.04	C
ATOM	3346	C	VAL	B	203	36.645	19.473	75.146	1.00	11.95	C
ATOM	3347	O	VAL	B	203	36.034	18.975	76.093	1.00	12.60	O
ATOM	3348	CB	VAL	B	203	39.140	19.049	74.778	1.00	12.31	C
ATOM	3349	CG1	VAL	B	203	39.269	19.222	76.302	1.00	11.33	C
ATOM	3350	CG2	VAL	B	203	40.139	17.995	74.288	1.00	11.70	C
ATOM	3351	N	TRP	B	204	36.434	20.714	74.722	1.00	12.29	N
ATOM	3352	CA	TRP	B	204	35.391	21.553	75.286	1.00	12.63	C
ATOM	3353	C	TRP	B	204	34.048	20.807	75.328	1.00	13.17	C
ATOM	3354	O	TRP	B	204	33.413	20.732	76.378	1.00	13.58	O

FIG. 5DDD

ATOM	3355	CB	TRP	B	204	35.268	22.872	74.503	1.00	12.35	C
ATOM	3356	CG	TRP	B	204	34.253	23.836	75.100	1.00	11.68	C
ATOM	3357	CD1	TRP	B	204	32.909	23.615	75.273	1.00	9.91	C
ATOM	3358	NE1	TRP	B	204	32.324	24.711	75.859	1.00	10.34	N
ATOM	3359	CE2	TRP	B	204	33.282	25.666	76.086	1.00	10.62	C
ATOM	3360	CD2	TRP	B	204	34.510	25.150	75.618	1.00	10.49	C
ATOM	3361	CE3	TRP	B	204	35.653	25.948	75.728	1.00	10.89	C
ATOM	3362	CZ3	TRP	B	204	35.537	27.219	76.294	1.00	11.73	C
ATOM	3363	CH2	TRP	B	204	34.305	27.704	76.752	1.00	10.91	C
ATOM	3364	CZ2	TRP	B	204	33.166	26.949	76.657	1.00	11.17	C
ATOM	3365	N	SER	B	205	33.635	20.258	74.184	1.00	13.45	N
ATOM	3366	CA	SER	B	205	32.371	19.526	74.059	1.00	13.46	C
ATOM	3367	C	SER	B	205	32.309	18.335	75.009	1.00	12.99	C
ATOM	3368	O	SER	B	205	31.262	18.058	75.594	1.00	12.79	O
ATOM	3369	CB	SER	B	205	32.171	19.050	72.621	1.00	13.44	C
ATOM	3370	OG	SER	B	205	32.099	20.149	71.740	1.00	14.45	O
ATOM	3371	N	TYR	B	206	33.441	17.639	75.142	1.00	13.17	N
ATOM	3372	CA	TYR	B	206	33.609	16.547	76.106	1.00	12.53	C
ATOM	3373	C	TYR	B	206	33.365	17.014	77.543	1.00	11.99	C
ATOM	3374	O	TYR	B	206	32.758	16.305	78.323	1.00	12.39	O
ATOM	3375	CB	TYR	B	206	35.008	15.923	75.970	1.00	12.35	C
ATOM	3376	CG	TYR	B	206	35.313	14.851	76.994	1.00	12.39	C
ATOM	3377	CD1	TYR	B	206	35.838	15.183	78.249	1.00	12.59	C
ATOM	3378	CE1	TYR	B	206	36.121	14.190	79.207	1.00	12.82	C
ATOM	3379	CZ	TYR	B	206	35.874	12.860	78.907	1.00	12.21	C
ATOM	3380	OH	TYR	B	206	36.142	11.892	79.853	1.00	13.41	O
ATOM	3381	CE2	TYR	B	206	35.348	12.504	77.670	1.00	11.74	C
ATOM	3382	CD2	TYR	B	206	35.064	13.500	76.719	1.00	11.49	C
ATOM	3383	N	GLY	B	207	33.834	18.207	77.892	1.00	11.78	N
ATOM	3384	CA	GLY	B	207	33.565	18.765	79.206	1.00	11.79	C
ATOM	3385	C	GLY	B	207	32.068	18.917	79.493	1.00	12.46	C
ATOM	3386	O	GLY	B	207	31.610	18.609	80.605	1.00	11.86	O
ATOM	3387	N	VAL	B	208	31.322	19.408	78.495	1.00	11.34	N
ATOM	3388	CA	VAL	B	208	29.875	19.594	78.601	1.00	11.23	C
ATOM	3389	C	VAL	B	208	29.146	18.242	78.673	1.00	11.48	C
ATOM	3390	O	VAL	B	208	28.161	18.093	79.396	1.00	10.39	O
ATOM	3391	CB	VAL	B	208	29.298	20.441	77.407	1.00	11.76	C
ATOM	3392	CG1	VAL	B	208	27.803	20.687	77.580	1.00	11.13	C
ATOM	3393	CG2	VAL	B	208	30.025	21.777	77.258	1.00	10.06	C
ATOM	3394	N	THR	B	209	29.656	17.263	77.926	1.00	11.61	N
ATOM	3395	CA	THR	B	209	29.079	15.935	77.873	1.00	11.60	C
ATOM	3396	C	THR	B	209	29.180	15.226	79.215	1.00	11.88	C
ATOM	3397	O	THR	B	209	28.214	14.596	79.657	1.00	11.75	O
ATOM	3398	CB	THR	B	209	29.749	15.144	76.743	1.00	12.45	C
ATOM	3399	OG1	THR	B	209	29.447	15.790	75.494	1.00	13.45	O
ATOM	3400	CG2	THR	B	209	29.150	13.744	76.594	1.00	10.29	C
ATOM	3401	N	VAL	B	210	30.339	15.358	79.865	1.00	12.22	N
ATOM	3402	CA	VAL	B	210	30.558	14.854	81.226	1.00	11.90	C
ATOM	3403	C	VAL	B	210	29.629	15.559	82.227	1.00	11.86	C
ATOM	3404	O	VAL	B	210	29.067	14.909	83.128	1.00	12.05	O
ATOM	3405	CB	VAL	B	210	32.049	14.982	81.637	1.00	12.02	C
ATOM	3406	CG1	VAL	B	210	32.243	14.780	83.138	1.00	12.94	C
ATOM	3407	CG2	VAL	B	210	32.886	13.986	80.871	1.00	12.66	C
ATOM	3408	N	TRP	B	211	29.449	16.872	82.060	1.00	11.36	N
ATOM	3409	CA	TRP	B	211	28.499	17.634	82.886	1.00	11.24	C
ATOM	3410	C	TRP	B	211	27.089	17.046	82.762	1.00	11.43	C
ATOM	3411	O	TRP	B	211	26.408	16.841	83.760	1.00	11.61	O
ATOM	3412	CB	TRP	B	211	28.508	19.119	82.521	1.00	10.51	C
ATOM	3413	CG	TRP	B	211	27.663	20.014	83.435	1.00	9.90	C
ATOM	3414	CD1	TRP	B	211	28.079	20.670	84.565	1.00	10.06	C

FIG. 5EEE

ATOM	3415	NE1	TRP	B	211	27.044	21.395	85.108	1.00	8.54	N
ATOM	3416	CE2	TRP	B	211	25.927	21.225	84.332	1.00	9.96	C
ATOM	3417	CD2	TRP	B	211	26.282	20.362	83.263	1.00	9.15	C
ATOM	3418	CE3	TRP	B	211	25.299	20.034	82.309	1.00	9.01	C
ATOM	3419	CZ3	TRP	B	211	24.008	20.563	82.457	1.00	8.15	C
ATOM	3420	CH2	TRP	B	211	23.690	21.412	83.538	1.00	9.22	C
ATOM	3421	CZ2	TRP	B	211	24.629	21.757	84.480	1.00	9.17	C
ATOM	3422	N	GLU	B	212	26.673	16.766	81.530	1.00	11.86	N
ATOM	3423	CA	GLU	B	212	25.389	16.124	81.249	1.00	12.21	C
ATOM	3424	C	GLU	B	212	25.227	14.816	82.015	1.00	12.72	C
ATOM	3425	O	GLU	B	212	24.205	14.598	82.666	1.00	13.19	O
ATOM	3426	CB	GLU	B	212	25.257	15.836	79.763	1.00	11.92	C
ATOM	3427	CG	GLU	B	212	24.918	17.027	78.901	1.00	13.09	C
ATOM	3428	CD	GLU	B	212	24.741	16.610	77.460	1.00	15.06	C
ATOM	3429	OE1	GLU	B	212	25.757	16.505	76.735	1.00	12.28	O
ATOM	3430	OE2	GLU	B	212	23.575	16.358	77.068	1.00	18.01	O
ATOM	3431	N	LEU	B	213	26.236	13.947	81.929	1.00	13.18	N
ATOM	3432	CA	LEU	B	213	26.201	12.654	82.611	1.00	13.20	C
ATOM	3433	C	LEU	B	213	26.074	12.800	84.130	1.00	13.33	C
ATOM	3434	O	LEU	B	213	25.288	12.104	84.763	1.00	13.44	O
ATOM	3435	CB	LEU	B	213	27.441	11.832	82.252	1.00	12.47	C
ATOM	3436	CG	LEU	B	213	27.604	11.439	80.777	1.00	12.45	C
ATOM	3437	CD1	LEU	B	213	28.748	10.433	80.612	1.00	10.90	C
ATOM	3438	CD2	LEU	B	213	26.289	10.889	80.200	1.00	11.77	C
ATOM	3439	N	MET	B	214	26.838	13.730	84.694	1.00	14.15	N
ATOM	3440	CA	MET	B	214	26.938	13.906	86.147	1.00	14.30	C
ATOM	3441	C	MET	B	214	25.723	14.602	86.754	1.00	13.92	C
ATOM	3442	O	MET	B	214	25.510	14.549	87.974	1.00	13.65	O
ATOM	3443	CB	MET	B	214	28.215	14.667	86.502	1.00	14.74	C
ATOM	3444	CG	MET	B	214	29.498	13.981	86.060	1.00	16.61	C
ATOM	3445	SD	MET	B	214	29.819	12.457	86.939	1.00	20.02	S
ATOM	3446	CE	MET	B	214	31.210	11.834	86.063	1.00	19.98	C
ATOM	3447	N	THR	B	215	24.934	15.256	85.904	1.00	13.54	N
ATOM	3448	CA	THR	B	215	23.656	15.826	86.322	1.00	13.05	C
ATOM	3449	C	THR	B	215	22.499	14.943	85.863	1.00	13.03	C
ATOM	3450	O	THR	B	215	21.344	15.361	85.896	1.00	13.13	O
ATOM	3451	CB	THR	B	215	23.486	17.226	85.723	1.00	13.30	C
ATOM	3452	OG1	THR	B	215	23.639	17.149	84.297	1.00	13.00	O
ATOM	3453	CG2	THR	B	215	24.608	18.166	86.189	1.00	12.58	C
ATOM	3454	N	PHE	B	216	22.817	13.743	85.383	1.00	12.98	N
ATOM	3455	CA	PHE	B	216	21.812	12.787	84.909	1.00	12.93	C
ATOM	3456	C	PHE	B	216	20.943	13.323	83.766	1.00	13.03	C
ATOM	3457	O	PHE	B	216	19.750	13.048	83.697	1.00	13.96	O
ATOM	3458	CB	PHE	B	216	20.957	12.257	86.080	1.00	12.68	C
ATOM	3459	CG	PHE	B	216	21.768	11.566	87.153	1.00	12.58	C
ATOM	3460	CD1	PHE	B	216	22.230	10.271	86.960	1.00	11.60	C
ATOM	3461	CE1	PHE	B	216	22.987	9.624	87.935	1.00	12.74	C
ATOM	3462	CZ	PHE	B	216	23.310	10.284	89.119	1.00	12.78	C
ATOM	3463	CE2	PHE	B	216	22.858	11.590	89.323	1.00	13.24	C
ATOM	3464	CD2	PHE	B	216	22.088	12.223	88.338	1.00	12.07	C
ATOM	3465	N	GLY	B	217	21.562	14.071	82.864	1.00	12.87	N
ATOM	3466	CA	GLY	B	217	20.902	14.535	81.660	1.00	13.32	C
ATOM	3467	C	GLY	B	217	20.224	15.886	81.780	1.00	13.37	C
ATOM	3468	O	GLY	B	217	19.185	16.105	81.163	1.00	12.73	O
ATOM	3469	N	SER	B	218	20.813	16.791	82.562	1.00	13.16	N
ATOM	3470	CA	SER	B	218	20.261	18.130	82.716	1.00	13.17	C
ATOM	3471	C	SER	B	218	20.633	19.024	81.525	1.00	13.52	C
ATOM	3472	O	SER	B	218	21.615	18.768	80.813	1.00	12.88	O
ATOM	3473	CB	SER	B	218	20.720	18.755	84.034	1.00	13.01	C
ATOM	3474	OG	SER	B	218	20.259	17.988	85.139	1.00	14.30	O

FIG. 5FFF



ATOM	3475	N	LYS	B	219	19.837	20.070	81.315	1.00	13.68	N
ATOM	3476	CA	LYS	B	219	20.081	21.018	80.236	1.00	13.58	C
ATOM	3477	C	LYS	B	219	21.188	22.008	80.619	1.00	13.36	C
ATOM	3478	O	LYS	B	219	21.112	22.664	81.673	1.00	13.45	O
ATOM	3479	CB	LYS	B	219	18.787	21.746	79.870	1.00	13.66	C
ATOM	3480	CG	LYS	B	219	17.761	20.866	79.175	1.00	15.43	C
ATOM	3481	CD	LYS	B	219	16.324	21.244	79.537	1.00	16.23	C
ATOM	3482	N	PRO	B	220	22.228	22.097	79.785	1.00	13.07	N
ATOM	3483	CA	PRO	B	220	23.303	23.075	79.997	1.00	12.97	C
ATOM	3484	C	PRO	B	220	22.840	24.495	79.709	1.00	13.50	C
ATOM	3485	O	PRO	B	220	22.134	24.725	78.723	1.00	13.45	O
ATOM	3486	CB	PRO	B	220	24.390	22.648	78.999	1.00	12.67	C
ATOM	3487	CG	PRO	B	220	23.711	21.814	77.992	1.00	12.80	C
ATOM	3488	CD	PRO	B	220	22.465	21.256	78.599	1.00	12.47	C
ATOM	3489	N	TYR	B	221	23.237	25.434	80.571	1.00	13.83	N
ATOM	3490	CA	TYR	B	221	22.876	26.838	80.422	1.00	14.51	C
ATOM	3491	C	TYR	B	221	21.378	26.971	80.303	1.00	14.56	C
ATOM	3492	O	TYR	B	221	20.872	27.621	79.405	1.00	15.20	O
ATOM	3493	CB	TYR	B	221	23.562	27.469	79.202	1.00	14.32	C
ATOM	3494	CG	TYR	B	221	25.038	27.200	79.119	1.00	13.60	C
ATOM	3495	CD1	TYR	B	221	25.927	27.812	79.997	1.00	13.71	C
ATOM	3496	CE1	TYR	B	221	27.279	27.568	79.923	1.00	14.78	C
ATOM	3497	CZ	TYR	B	221	27.759	26.703	78.956	1.00	15.26	C
ATOM	3498	OH	TYR	B	221	29.106	26.462	78.868	1.00	17.47	O
ATOM	3499	CE2	TYR	B	221	26.897	26.086	78.072	1.00	14.24	C
ATOM	3500	CD2	TYR	B	221	25.547	26.339	78.158	1.00	14.07	C
ATOM	3501	N	ASP	B	222	20.681	26.315	81.216	1.00	16.09	N
ATOM	3502	CA	ASP	B	222	19.235	26.351	81.292	1.00	16.84	C
ATOM	3503	C	ASP	B	222	18.831	27.783	81.600	1.00	17.60	C
ATOM	3504	O	ASP	B	222	19.357	28.395	82.536	1.00	18.21	O
ATOM	3505	CB	ASP	B	222	18.780	25.401	82.403	1.00	16.45	C
ATOM	3506	CG	ASP	B	222	17.320	25.049	82.322	1.00	15.83	C
ATOM	3507	OD1	ASP	B	222	16.699	25.175	81.231	1.00	15.41	O
ATOM	3508	OD2	ASP	B	222	16.712	24.611	83.320	1.00	15.50	O
ATOM	3509	N	GLY	B	223	17.937	28.332	80.789	1.00	18.15	N
ATOM	3510	CA	GLY	B	223	17.547	29.728	80.934	1.00	19.05	C
ATOM	3511	C	GLY	B	223	18.352	30.732	80.124	1.00	19.50	C
ATOM	3512	O	GLY	B	223	18.049	31.919	80.176	1.00	20.10	O
ATOM	3513	N	ILE	B	224	19.382	30.282	79.396	1.00	20.10	N
ATOM	3514	CA	ILE	B	224	20.124	31.173	78.485	1.00	20.19	C
ATOM	3515	C	ILE	B	224	19.838	30.781	77.039	1.00	20.41	C
ATOM	3516	O	ILE	B	224	20.013	29.620	76.674	1.00	20.75	O
ATOM	3517	CB	ILE	B	224	21.664	31.168	78.759	1.00	20.38	C
ATOM	3518	CG1	ILE	B	224	21.973	31.455	80.235	1.00	19.85	C
ATOM	3519	CD1	ILE	B	224	23.430	31.233	80.599	1.00	18.90	C
ATOM	3520	CG2	ILE	B	224	22.400	32.192	77.864	1.00	19.94	C
ATOM	3521	N	PRO	B	225	19.385	31.735	76.224	1.00	20.41	N
ATOM	3522	CA	PRO	B	225	19.148	31.475	74.796	1.00	20.58	C
ATOM	3523	C	PRO	B	225	20.475	31.278	74.060	1.00	20.74	C
ATOM	3524	O	PRO	B	225	21.480	31.906	74.416	1.00	20.85	O
ATOM	3525	CB	PRO	B	225	18.438	32.745	74.307	1.00	20.68	C
ATOM	3526	CG	PRO	B	225	18.062	33.522	75.562	1.00	20.97	C
ATOM	3527	CD	PRO	B	225	19.078	33.129	76.596	1.00	20.54	C
ATOM	3528	N	ALA	B	226	20.471	30.406	73.057	1.00	21.00	N
ATOM	3529	CA	ALA	B	226	21.679	30.026	72.319	1.00	22.30	C
ATOM	3530	C	ALA	B	226	22.485	31.217	71.793	1.00	23.01	C
ATOM	3531	O	ALA	B	226	23.716	31.171	71.771	1.00	23.39	O
ATOM	3532	CB	ALA	B	226	21.330	29.048	71.169	1.00	21.73	C
ATOM	3533	N	SER	B	227	21.787	32.279	71.382	1.00	23.77	N
ATOM	3534	CA	SER	B	227	22.430	33.487	70.848	1.00	23.79	C

FIG. 5GGG

ATOM	3535	C	SER	B	227	23.269	34.259	71.863	1.00	23.26	C
ATOM	3536	O	SER	B	227	24.071	35.103	71.478	1.00	23.63	O
ATOM	3537	CB	SER	B	227	21.386	34.430	70.242	1.00	24.24	C
ATOM	3538	OG	SER	B	227	20.457	34.855	71.232	1.00	25.39	O
ATOM	3539	N	GLU	B	228	23.093	33.968	73.148	1.00	22.99	N
ATOM	3540	CA	GLU	B	228	23.759	34.725	74.210	1.00	22.66	C
ATOM	3541	C	GLU	B	228	24.938	33.978	74.820	1.00	22.10	C
ATOM	3542	O	GLU	B	228	25.642	34.508	75.683	1.00	22.07	O
ATOM	3543	CB	GLU	B	228	22.762	35.078	75.311	1.00	23.05	C
ATOM	3544	CG	GLU	B	228	21.780	36.167	74.920	1.00	25.79	C
ATOM	3545	CD	GLU	B	228	22.327	37.559	75.178	1.00	27.85	C
ATOM	3546	OE1	GLU	B	228	22.176	38.061	76.317	1.00	30.54	O
ATOM	3547	OE2	GLU	B	228	22.910	38.143	74.248	1.00	26.71	O
ATOM	3548	N	ILE	B	229	25.151	32.750	74.364	1.00	21.35	N
ATOM	3549	CA	ILE	B	229	26.117	31.865	74.987	1.00	21.14	C
ATOM	3550	C	ILE	B	229	27.549	32.387	74.877	1.00	21.31	C
ATOM	3551	O	ILE	B	229	28.254	32.449	75.884	1.00	21.30	O
ATOM	3552	CB	ILE	B	229	25.972	30.415	74.452	1.00	20.56	C
ATOM	3553	CG1	ILE	B	229	24.714	29.751	75.034	1.00	20.34	C
ATOM	3554	CD1	ILE	B	229	24.642	29.724	76.558	1.00	19.28	C
ATOM	3555	CG2	ILE	B	229	27.214	29.583	74.767	1.00	20.51	C
ATOM	3556	N	SER	B	230	27.968	32.774	73.672	1.00	21.47	N
ATOM	3557	CA	SER	B	230	29.325	33.285	73.469	1.00	22.24	C
ATOM	3558	C	SER	B	230	29.593	34.505	74.357	1.00	22.55	C
ATOM	3559	O	SER	B	230	30.708	34.698	74.849	1.00	23.52	O
ATOM	3560	CB	SER	B	230	29.608	33.565	71.982	1.00	22.20	C
ATOM	3561	OG	SER	B	230	28.830	34.633	71.465	1.00	24.03	O
ATOM	3562	N	SER	B	231	28.547	35.291	74.596	1.00	22.59	N
ATOM	3563	CA	SER	B	231	28.614	36.461	75.466	1.00	23.00	C
ATOM	3564	C	SER	B	231	28.862	36.106	76.938	1.00	22.72	C
ATOM	3565	O	SER	B	231	29.770	36.665	77.573	1.00	23.09	O
ATOM	3566	CB	SER	B	231	27.333	37.281	75.326	1.00	23.12	C
ATOM	3567	OG	SER	B	231	27.439	38.487	76.043	1.00	25.45	O
ATOM	3568	N	ILE	B	232	28.067	35.176	77.477	1.00	22.05	N
ATOM	3569	CA	ILE	B	232	28.240	34.741	78.866	1.00	21.30	C
ATOM	3570	C	ILE	B	232	29.578	34.012	79.079	1.00	21.03	C
ATOM	3571	O	ILE	B	232	30.209	34.166	80.118	1.00	20.96	O
ATOM	3572	CB	ILE	B	232	27.008	33.920	79.391	1.00	21.78	C
ATOM	3573	CG1	ILE	B	232	26.869	32.554	78.697	1.00	21.34	C
ATOM	3574	CD1	ILE	B	232	27.378	31.395	79.518	1.00	20.20	C
ATOM	3575	CG2	ILE	B	232	25.705	34.724	79.235	1.00	21.34	C
ATOM	3576	N	LEU	B	233	30.025	33.255	78.081	1.00	20.86	N
ATOM	3577	CA	LEU	B	233	31.322	32.575	78.164	1.00	21.43	C
ATOM	3578	C	LEU	B	233	32.481	33.562	78.256	1.00	21.77	C
ATOM	3579	O	LEU	B	233	33.367	33.414	79.105	1.00	21.48	O
ATOM	3580	CB	LEU	B	233	31.529	31.620	76.987	1.00	20.79	C
ATOM	3581	CG	LEU	B	233	30.607	30.402	76.908	1.00	20.04	C
ATOM	3582	CD1	LEU	B	233	30.807	29.705	75.583	1.00	19.71	C
ATOM	3583	CD2	LEU	B	233	30.821	29.433	78.089	1.00	19.12	C
ATOM	3584	N	GLU	B	234	32.453	34.576	77.392	1.00	23.05	N
ATOM	3585	CA	GLU	B	234	33.456	35.648	77.400	1.00	24.05	C
ATOM	3586	C	GLU	B	234	33.537	36.370	78.741	1.00	23.77	C
ATOM	3587	O	GLU	B	234	34.603	36.845	79.118	1.00	23.80	O
ATOM	3588	CB	GLU	B	234	33.202	36.646	76.263	1.00	24.51	C
ATOM	3589	CG	GLU	B	234	33.719	36.154	74.922	1.00	26.00	C
ATOM	3590	CD	GLU	B	234	33.368	37.074	73.762	1.00	28.75	C
ATOM	3591	OE1	GLU	B	234	34.277	37.397	72.973	1.00	30.25	O
ATOM	3592	OE2	GLU	B	234	32.191	37.476	73.627	1.00	30.99	O
ATOM	3593	N	LYS	B	235	32.413	36.424	79.457	1.00	24.49	N
ATOM	3594	CA	LYS	B	235	32.340	37.005	80.797	1.00	24.93	C

FIG. 5HHH

ATOM	3595	C	LYS	B	235	32.902	36.086	81.877	1.00	24.45	C
ATOM	3596	O	LYS	B	235	33.078	36.505	83.024	1.00	24.35	O
ATOM	3597	CB	LYS	B	235	30.893	37.355	81.150	1.00	25.98	C
ATOM	3598	CG	LYS	B	235	30.368	38.618	80.492	1.00	28.19	C
ATOM	3599	CD	LYS	B	235	28.862	38.763	80.711	1.00	31.13	C
ATOM	3600	CE	LYS	B	235	28.557	39.471	82.032	1.00	33.15	C
ATOM	3601	NZ	LYS	B	235	27.086	39.595	82.276	1.00	35.13	N
ATOM	3602	N	GLY	B	236	33.174	34.836	81.512	1.00	24.09	N
ATOM	3603	CA	GLY	B	236	33.720	33.854	82.438	1.00	23.13	C
ATOM	3604	C	GLY	B	236	32.683	32.941	83.070	1.00	22.39	C
ATOM	3605	O	GLY	B	236	32.984	32.221	84.017	1.00	22.47	O
ATOM	3606	N	GLU	B	237	31.458	32.969	82.555	1.00	21.87	N
ATOM	3607	CA	GLU	B	237	30.410	32.082	83.055	1.00	21.59	C
ATOM	3608	C	GLU	B	237	30.594	30.660	82.537	1.00	20.08	C
ATOM	3609	O	GLU	B	237	30.942	30.449	81.372	1.00	19.72	O
ATOM	3610	CB	GLU	B	237	29.026	32.599	82.682	1.00	22.13	C
ATOM	3611	CG	GLU	B	237	28.732	33.985	83.229	1.00	26.28	C
ATOM	3612	CD	GLU	B	237	28.064	33.947	84.590	1.00	29.38	C
ATOM	3613	OE1	GLU	B	237	28.199	32.928	85.306	1.00	31.52	O
ATOM	3614	OE2	GLU	B	237	27.396	34.941	84.942	1.00	31.26	O
ATOM	3615	N	ARG	B	238	30.339	29.705	83.425	1.00	18.37	N
ATOM	3616	CA	ARG	B	238	30.519	28.289	83.166	1.00	17.29	C
ATOM	3617	C	ARG	B	238	29.401	27.486	83.817	1.00	16.49	C
ATOM	3618	O	ARG	B	238	28.752	27.943	84.761	1.00	17.26	O
ATOM	3619	CB	ARG	B	238	31.879	27.807	83.700	1.00	17.10	C
ATOM	3620	CG	ARG	B	238	33.110	28.341	82.955	1.00	16.95	C
ATOM	3621	CD	ARG	B	238	33.069	28.139	81.423	1.00	17.64	C
ATOM	3622	NE	ARG	B	238	34.316	28.581	80.801	1.00	17.77	N
ATOM	3623	CZ	ARG	B	238	34.563	29.812	80.386	1.00	16.60	C
ATOM	3624	NH1	ARG	B	238	33.649	30.770	80.503	1.00	16.67	N
ATOM	3625	NH2	ARG	B	238	35.738	30.085	79.847	1.00	17.35	N
ATOM	3626	N	LEU	B	239	29.186	26.283	83.303	1.00	15.01	N
ATOM	3627	CA	LEU	B	239	28.277	25.312	83.902	1.00	13.63	C
ATOM	3628	C	LEU	B	239	28.645	25.037	85.362	1.00	12.77	C
ATOM	3629	O	LEU	B	239	29.823	24.919	85.687	1.00	12.82	O
ATOM	3630	CB	LEU	B	239	28.325	24.020	83.092	1.00	12.97	C
ATOM	3631	CG	LEU	B	239	27.874	24.124	81.641	1.00	12.81	C
ATOM	3632	CD1	LEU	B	239	28.202	22.836	80.913	1.00	10.97	C
ATOM	3633	CD2	LEU	B	239	26.365	24.432	81.584	1.00	12.44	C
ATOM	3634	N	PRO	B	240	27.642	24.952	86.236	1.00	12.88	N
ATOM	3635	CA	PRO	B	240	27.869	24.819	87.688	1.00	12.68	C
ATOM	3636	C	PRO	B	240	28.288	23.416	88.106	1.00	13.42	C
ATOM	3637	O	PRO	B	240	28.120	22.485	87.319	1.00	14.52	O
ATOM	3638	CB	PRO	B	240	26.491	25.136	88.276	1.00	12.16	C
ATOM	3639	CG	PRO	B	240	25.533	24.665	87.217	1.00	11.29	C
ATOM	3640	CD	PRO	B	240	26.197	25.004	85.910	1.00	12.22	C
ATOM	3641	N	GLN	B	241	28.808	23.279	89.326	1.00	13.71	N
ATOM	3642	CA	GLN	B	241	29.254	22.000	89.879	1.00	14.12	C
ATOM	3643	C	GLN	B	241	28.063	21.103	90.199	1.00	14.23	C
ATOM	3644	O	GLN	B	241	27.214	21.480	91.005	1.00	15.16	O
ATOM	3645	CB	GLN	B	241	30.061	22.253	91.152	1.00	14.67	C
ATOM	3646	CG	GLN	B	241	30.628	21.019	91.861	1.00	14.50	C
ATOM	3647	CD	GLN	B	241	31.366	21.380	93.141	1.00	15.22	C
ATOM	3648	OE1	GLN	B	241	31.656	22.551	93.390	1.00	17.17	O
ATOM	3649	NE2	GLN	B	241	31.679	20.379	93.949	1.00	15.41	N
ATOM	3650	N	PRO	B	242	27.994	19.927	89.577	1.00	14.19	N
ATOM	3651	CA	PRO	B	242	26.899	18.985	89.845	1.00	14.08	C
ATOM	3652	C	PRO	B	242	26.889	18.561	91.310	1.00	13.95	C
ATOM	3653	O	PRO	B	242	27.968	18.432	91.894	1.00	15.61	O
ATOM	3654	CB	PRO	B	242	27.220	17.799	88.925	1.00	13.09	C

FIG. 5III

ATOM	3655	CG	PRO	B	242	28.074	18.402	87.846	1.00	13.75	C
ATOM	3656	CD	PRO	B	242	28.940	19.398	88.571	1.00	13.98	C
ATOM	3657	N	PRO	B	243	25.711	18.386	91.904	1.00	13.79	N
ATOM	3658	CA	PRO	B	243	25.603	17.963	93.308	1.00	13.77	C
ATOM	3659	C	PRO	B	243	26.433	16.721	93.663	1.00	14.39	C
ATOM	3660	O	PRO	B	243	26.956	16.657	94.786	1.00	14.49	O
ATOM	3661	CB	PRO	B	243	24.110	17.674	93.468	1.00	13.38	C
ATOM	3662	CG	PRO	B	243	23.452	18.564	92.473	1.00	13.06	C
ATOM	3663	CD	PRO	B	243	24.383	18.610	91.296	1.00	13.60	C
ATOM	3664	N	ILE	B	244	26.574	15.776	92.732	1.00	14.56	N
ATOM	3665	CA	ILE	B	244	27.276	14.513	93.021	1.00	15.32	C
ATOM	3666	C	ILE	B	244	28.793	14.614	92.881	1.00	15.58	C
ATOM	3667	O	ILE	B	244	29.523	13.705	93.302	1.00	16.52	O
ATOM	3668	CB	ILE	B	244	26.747	13.341	92.142	1.00	14.86	C
ATOM	3669	CG1	ILE	B	244	27.265	13.462	90.694	1.00	15.57	C
ATOM	3670	CD1	ILE	B	244	27.091	12.206	89.848	1.00	14.23	C
ATOM	3671	CG2	ILE	B	244	25.217	13.248	92.220	1.00	14.47	C
ATOM	3672	N	CYS	B	245	29.267	15.706	92.289	1.00	15.23	N
ATOM	3673	CA	CYS	B	245	30.682	15.833	91.995	1.00	15.43	C
ATOM	3674	C	CYS	B	245	31.470	16.391	93.160	1.00	15.26	C
ATOM	3675	O	CYS	B	245	31.106	17.410	93.745	1.00	15.44	O
ATOM	3676	CB	CYS	B	245	30.911	16.717	90.770	1.00	15.92	C
ATOM	3677	SG	CYS	B	245	30.389	15.976	89.221	1.00	18.07	S
ATOM	3678	N	THR	B	246	32.565	15.720	93.492	1.00	14.87	N
ATOM	3679	CA	THR	B	246	33.587	16.353	94.306	1.00	14.14	C
ATOM	3680	C	THR	B	246	34.242	17.406	93.419	1.00	14.34	C
ATOM	3681	O	THR	B	246	34.088	17.379	92.179	1.00	14.25	O
ATOM	3682	CB	THR	B	246	34.629	15.335	94.806	1.00	14.14	C
ATOM	3683	OG1	THR	B	246	35.186	14.629	93.691	1.00	13.28	O
ATOM	3684	CG2	THR	B	246	33.958	14.251	95.643	1.00	12.79	C
ATOM	3685	N	ILE	B	247	34.954	18.335	94.045	1.00	13.78	N
ATOM	3686	CA	ILE	B	247	35.588	19.422	93.316	1.00	14.18	C
ATOM	3687	C	ILE	B	247	36.708	18.926	92.404	1.00	14.74	C
ATOM	3688	O	ILE	B	247	37.034	19.581	91.417	1.00	15.64	O
ATOM	3689	CB	ILE	B	247	36.086	20.542	94.300	1.00	14.39	C
ATOM	3690	CG1	ILE	B	247	36.346	21.862	93.542	1.00	14.02	C
ATOM	3691	CG2	ILE	B	247	37.291	20.069	95.113	1.00	12.39	C
ATOM	3692	N	ASP	B	248	37.287	17.771	92.727	1.00	15.22	N
ATOM	3693	CA	ASP	B	248	38.311	17.166	91.881	1.00	15.68	C
ATOM	3694	C	ASP	B	248	37.786	16.862	90.473	1.00	15.45	C
ATOM	3695	O	ASP	B	248	38.500	17.087	89.484	1.00	15.83	O
ATOM	3696	CB	ASP	B	248	38.871	15.905	92.530	1.00	16.79	C
ATOM	3697	CG	ASP	B	248	39.500	16.174	93.897	1.00	18.94	C
ATOM	3698	OD1	ASP	B	248	38.815	16.723	94.791	1.00	21.19	O
ATOM	3699	OD2	ASP	B	248	40.674	15.860	94.166	1.00	19.48	O
ATOM	3700	N	VAL	B	249	36.545	16.371	90.388	1.00	14.24	N
ATOM	3701	CA	VAL	B	249	35.926	16.013	89.106	1.00	13.40	C
ATOM	3702	C	VAL	B	249	35.535	17.266	88.329	1.00	13.20	C
ATOM	3703	O	VAL	B	249	35.783	17.369	87.126	1.00	12.26	O
ATOM	3704	CB	VAL	B	249	34.668	15.099	89.280	1.00	13.81	C
ATOM	3705	CG1	VAL	B	249	34.045	14.760	87.915	1.00	13.08	C
ATOM	3706	CG2	VAL	B	249	35.011	13.819	90.054	1.00	12.57	C
ATOM	3707	N	TYR	B	250	34.913	18.207	89.034	1.00	13.48	N
ATOM	3708	CA	TYR	B	250	34.542	19.506	88.479	1.00	13.90	C
ATOM	3709	C	TYR	B	250	35.733	20.286	87.906	1.00	14.58	C
ATOM	3710	O	TYR	B	250	35.614	20.900	86.850	1.00	14.68	O
ATOM	3711	CB	TYR	B	250	33.815	20.344	89.533	1.00	12.92	C
ATOM	3712	CG	TYR	B	250	33.230	21.645	89.005	1.00	11.54	C
ATOM	3713	CD1	TYR	B	250	33.515	22.867	89.625	1.00	11.65	C
ATOM	3714	CE1	TYR	B	250	32.974	24.055	89.154	1.00	11.22	C

FIG. 5JJJ

ATOM	3715	CZ	TYR	B	250	32.142	24.023	88.047	1.00	12.29	C
ATOM	3716	OH	TYR	B	250	31.582	25.189	87.558	1.00	12.34	O
ATOM	3717	CE2	TYR	B	250	31.855	22.821	87.419	1.00	10.40	C
ATOM	3718	CD2	TYR	B	250	32.396	21.650	87.903	1.00	10.00	C
ATOM	3719	N	MET	B	251	36.858	20.264	88.618	1.00	16.21	N
ATOM	3720	CA	MET	B	251	38.120	20.880	88.171	1.00	17.64	C
ATOM	3721	C	MET	B	251	38.581	20.391	86.785	1.00	17.75	C
ATOM	3722	O	MET	B	251	39.111	21.178	85.996	1.00	17.79	O
ATOM	3723	CB	MET	B	251	39.229	20.647	89.203	1.00	17.74	C
ATOM	3724	CG	MET	B	251	39.233	21.629	90.365	1.00	21.44	C
ATOM	3725	SD	MET	B	251	40.267	21.062	91.762	1.00	27.32	S
ATOM	3726	CE	MET	B	251	41.721	21.960	91.509	1.00	27.87	C
ATOM	3727	N	ILE	B	252	38.388	19.102	86.495	1.00	17.87	N
ATOM	3728	CA	ILE	B	252	38.654	18.574	85.152	1.00	18.51	C
ATOM	3729	C	ILE	B	252	37.730	19.186	84.108	1.00	18.27	C
ATOM	3730	O	ILE	B	252	38.181	19.544	83.013	1.00	18.74	O
ATOM	3731	CB	ILE	B	252	38.526	17.042	85.084	1.00	19.20	C
ATOM	3732	CG1	ILE	B	252	39.443	16.370	86.093	1.00	20.17	C
ATOM	3733	CD1	ILE	B	252	39.032	14.961	86.378	1.00	23.78	C
ATOM	3734	CG2	ILE	B	252	38.873	16.549	83.682	1.00	19.28	C
ATOM	3735	N	MET	B	253	36.445	19.291	84.444	1.00	17.73	N
ATOM	3736	CA	MET	B	253	35.456	19.906	83.560	1.00	17.78	C
ATOM	3737	C	MET	B	253	35.860	21.346	83.224	1.00	17.74	C
ATOM	3738	O	MET	B	253	35.894	21.732	82.060	1.00	17.41	O
ATOM	3739	CB	MET	B	253	34.054	19.877	84.189	1.00	17.77	C
ATOM	3740	CG	MET	B	253	33.508	18.478	84.505	1.00	18.61	C
ATOM	3741	SD	MET	B	253	31.797	18.471	85.149	1.00	19.86	S
ATOM	3742	CE	MET	B	253	31.836	17.018	86.082	1.00	19.64	C
ATOM	3743	N	VAL	B	254	36.180	22.121	84.254	1.00	17.59	N
ATOM	3744	CA	VAL	B	254	36.503	23.544	84.112	1.00	17.73	C
ATOM	3745	C	VAL	B	254	37.706	23.743	83.194	1.00	17.23	C
ATOM	3746	O	VAL	B	254	37.731	24.657	82.364	1.00	17.29	O
ATOM	3747	CB	VAL	B	254	36.748	24.199	85.506	1.00	17.93	C
ATOM	3748	CG1	VAL	B	254	37.495	25.528	85.380	1.00	18.54	C
ATOM	3749	CG2	VAL	B	254	35.419	24.376	86.260	1.00	17.08	C
ATOM	3750	N	LYS	B	255	38.687	22.859	83.343	1.00	17.16	N
ATOM	3751	CA	LYS	B	255	39.880	22.836	82.506	1.00	16.61	C
ATOM	3752	C	LYS	B	255	39.512	22.684	81.032	1.00	15.72	C
ATOM	3753	O	LYS	B	255	40.207	23.208	80.166	1.00	16.37	O
ATOM	3754	CB	LYS	B	255	40.802	21.691	82.947	1.00	17.11	C
ATOM	3755	CG	LYS	B	255	41.818	22.054	84.028	1.00	18.64	C
ATOM	3756	CD	LYS	B	255	42.103	20.882	84.970	1.00	19.39	C
ATOM	3757	CE	LYS	B	255	43.506	20.349	84.788	1.00	21.72	C
ATOM	3758	NZ	LYS	B	255	44.190	20.115	86.100	1.00	22.15	N
ATOM	3759	N	CYS	B	256	38.423	21.969	80.752	1.00	14.38	N
ATOM	3760	CA	CYS	B	256	37.957	21.761	79.381	1.00	14.28	C
ATOM	3761	C	CYS	B	256	37.374	23.023	78.742	1.00	14.34	C
ATOM	3762	O	CYS	B	256	37.261	23.102	77.518	1.00	14.06	O
ATOM	3763	CB	CYS	B	256	36.911	20.647	79.317	1.00	13.80	C
ATOM	3764	SG	CYS	B	256	37.547	18.985	79.618	1.00	14.32	S
ATOM	3765	N	TRP	B	257	37.004	23.988	79.580	1.00	13.91	N
ATOM	3766	CA	TRP	B	257	36.295	25.194	79.157	1.00	13.77	C
ATOM	3767	C	TRP	B	257	37.165	26.465	79.220	1.00	15.02	C
ATOM	3768	O	TRP	B	257	36.648	27.584	79.167	1.00	14.41	O
ATOM	3769	CB	TRP	B	257	35.042	25.383	80.023	1.00	12.55	C
ATOM	3770	CG	TRP	B	257	34.140	24.193	80.049	1.00	9.07	C
ATOM	3771	CD1	TRP	B	257	33.892	23.342	79.019	1.00	5.44	C
ATOM	3772	NE1	TRP	B	257	32.998	22.380	79.409	1.00	6.93	N
ATOM	3773	CE2	TRP	B	257	32.643	22.594	80.715	1.00	7.17	C
ATOM	3774	CD2	TRP	B	257	33.338	23.739	81.151	1.00	7.71	C

FIG. 5KKK

ATOM	3775	CE3	TRP	B	257	33.136	24.186	82.473	1.00	8.05	C
ATOM	3776	CZ3	TRP	B	257	32.261	23.477	83.304	1.00	6.27	C
ATOM	3777	CH2	TRP	B	257	31.588	22.337	82.834	1.00	6.51	C
ATOM	3778	CZ2	TRP	B	257	31.766	21.882	81.544	1.00	7.14	C
ATOM	3779	N	MET	B	258	38.478	26.292	79.334	1.00	16.06	N
ATOM	3780	CA	MET	B	258	39.384	27.428	79.285	1.00	18.60	C
ATOM	3781	C	MET	B	258	39.374	28.045	77.888	1.00	19.06	C
ATOM	3782	O	MET	B	258	39.352	27.323	76.892	1.00	20.11	O
ATOM	3783	CB	MET	B	258	40.794	27.020	79.714	1.00	18.90	C
ATOM	3784	CG	MET	B	258	40.945	26.949	81.224	1.00	21.95	C
ATOM	3785	SD	MET	B	258	42.402	26.035	81.734	1.00	30.27	S
ATOM	3786	CE	MET	B	258	42.043	25.815	83.408	1.00	27.94	C
ATOM	3787	N	ILE	B	259	39.367	29.376	77.817	1.00	19.93	N
ATOM	3788	CA	ILE	B	259	39.271	30.074	76.531	1.00	20.24	C
ATOM	3789	C	ILE	B	259	40.439	29.714	75.623	1.00	20.46	C
ATOM	3790	O	ILE	B	259	40.249	29.553	74.423	1.00	20.89	O
ATOM	3791	CB	ILE	B	259	39.151	31.609	76.719	1.00	20.93	C
ATOM	3792	CG1	ILE	B	259	37.884	31.970	77.493	1.00	21.43	C
ATOM	3793	CD1	ILE	B	259	36.577	31.480	76.863	1.00	23.32	C
ATOM	3794	CG2	ILE	B	259	39.156	32.355	75.359	1.00	21.81	C
ATOM	3795	N	ASP	B	260	41.636	29.573	76.194	1.00	20.65	N
ATOM	3796	CA	ASP	B	260	42.797	29.173	75.414	1.00	20.93	C
ATOM	3797	C	ASP	B	260	42.796	27.662	75.198	1.00	21.14	C
ATOM	3798	O	ASP	B	260	43.024	26.889	76.126	1.00	20.65	O
ATOM	3799	CB	ASP	B	260	44.106	29.630	76.071	1.00	21.15	C
ATOM	3800	CG	ASP	B	260	45.321	29.442	75.160	1.00	22.12	C
ATOM	3801	OD1	ASP	B	260	46.226	30.305	75.178	1.00	23.82	O
ATOM	3802	OD2	ASP	B	260	45.460	28.470	74.386	1.00	22.28	O
ATOM	3803	N	ALA	B	261	42.556	27.269	73.951	1.00	21.77	N
ATOM	3804	CA	ALA	B	261	42.445	25.875	73.539	1.00	22.35	C
ATOM	3805	C	ALA	B	261	43.666	25.045	73.940	1.00	23.20	C
ATOM	3806	O	ALA	B	261	43.546	23.850	74.242	1.00	22.79	O
ATOM	3807	CB	ALA	B	261	42.217	25.802	72.036	1.00	21.66	C
ATOM	3808	N	ASP	B	262	44.829	25.694	73.958	1.00	24.00	N
ATOM	3809	CA	ASP	B	262	46.083	25.043	74.329	1.00	24.82	C
ATOM	3810	C	ASP	B	262	46.217	24.807	75.831	1.00	24.77	C
ATOM	3811	O	ASP	B	262	47.012	23.971	76.255	1.00	25.09	O
ATOM	3812	CB	ASP	B	262	47.278	25.833	73.784	1.00	25.21	C
ATOM	3813	CG	ASP	B	262	47.359	25.783	72.270	1.00	26.70	C
ATOM	3814	OD1	ASP	B	262	47.079	24.712	71.693	1.00	28.08	O
ATOM	3815	OD2	ASP	B	262	47.688	26.758	71.564	1.00	29.43	O
ATOM	3816	N	SER	B	263	45.447	25.553	76.623	1.00	24.81	N
ATOM	3817	CA	SER	B	263	45.372	25.362	78.071	1.00	24.47	C
ATOM	3818	C	SER	B	263	44.509	24.149	78.456	1.00	23.99	C
ATOM	3819	O	SER	B	263	44.596	23.661	79.580	1.00	24.56	O
ATOM	3820	CB	SER	B	263	44.796	26.612	78.744	1.00	24.66	C
ATOM	3821	OG	SER	B	263	45.670	27.720	78.626	1.00	26.51	O
ATOM	3822	N	ARG	B	264	43.658	23.696	77.537	1.00	22.96	N
ATOM	3823	CA	ARG	B	264	42.748	22.582	77.792	1.00	22.04	C
ATOM	3824	C	ARG	B	264	43.495	21.255	77.820	1.00	21.62	C
ATOM	3825	O	ARG	B	264	44.472	21.074	77.083	1.00	21.63	O
ATOM	3826	CB	ARG	B	264	41.669	22.512	76.708	1.00	22.15	C
ATOM	3827	CG	ARG	B	264	40.656	23.648	76.734	1.00	21.27	C
ATOM	3828	CD	ARG	B	264	39.725	23.679	75.532	1.00	18.87	C
ATOM	3829	NE	ARG	B	264	39.303	25.041	75.234	1.00	18.42	N
ATOM	3830	CZ	ARG	B	264	38.856	25.459	74.057	1.00	19.86	C
ATOM	3831	NH1	ARG	B	264	38.512	26.730	73.909	1.00	19.76	N
ATOM	3832	NH2	ARG	B	264	38.740	24.618	73.027	1.00	20.18	N
ATOM	3833	N	PRO	B	265	43.035	20.324	78.658	1.00	20.99	N
ATOM	3834	CA	PRO	B	265	43.554	18.952	78.640	1.00	20.37	C

FIG. 5LLL

ATOM	3835	C	PRO	B	265	43.422	18.352	77.248	1.00	20.21	C
ATOM	3836	O	PRO	B	265	42.597	18.807	76.451	1.00	20.47	O
ATOM	3837	CB	PRO	B	265	42.624	18.195	79.599	1.00	20.50	C
ATOM	3838	CG	PRO	B	265	41.892	19.223	80.399	1.00	20.26	C
ATOM	3839	CD	PRO	B	265	41.985	20.518	79.675	1.00	20.58	C
ATOM	3840	N	LYS	B	266	44.243	17.348	76.959	1.00	19.85	N
ATOM	3841	CA	LYS	B	266	44.143	16.588	75.724	1.00	18.81	C
ATOM	3842	C	LYS	B	266	43.412	15.300	76.067	1.00	18.67	C
ATOM	3843	O	LYS	B	266	43.386	14.908	77.236	1.00	18.91	O
ATOM	3844	CB	LYS	B	266	45.542	16.290	75.181	1.00	19.50	C
ATOM	3845	CG	LYS	B	266	46.300	17.529	74.654	1.00	18.95	C
ATOM	3846	N	PHE	B	267	42.821	14.634	75.075	1.00	17.83	N
ATOM	3847	CA	PHE	B	267	42.064	13.410	75.358	1.00	17.53	C
ATOM	3848	C	PHE	B	267	42.879	12.317	76.080	1.00	17.68	C
ATOM	3849	O	PHE	B	267	42.378	11.690	77.008	1.00	18.05	O
ATOM	3850	CB	PHE	B	267	41.351	12.877	74.103	1.00	16.96	C
ATOM	3851	CG	PHE	B	267	40.111	13.665	73.724	1.00	14.86	C
ATOM	3852	CD1	PHE	B	267	39.015	13.725	74.581	1.00	11.46	C
ATOM	3853	CE1	PHE	B	267	37.884	14.437	74.241	1.00	11.98	C
ATOM	3854	CZ	PHE	B	267	37.831	15.118	73.031	1.00	12.05	C
ATOM	3855	CE2	PHE	B	267	38.915	15.073	72.169	1.00	12.75	C
ATOM	3856	CD2	PHE	B	267	40.051	14.349	72.519	1.00	13.19	C
ATOM	3857	N	ARG	B	268	44.132	12.121	75.680	1.00	17.72	N
ATOM	3858	CA	ARG	B	268	45.047	11.207	76.380	1.00	18.48	C
ATOM	3859	C	ARG	B	268	45.182	11.529	77.879	1.00	18.44	C
ATOM	3860	O	ARG	B	268	45.247	10.630	78.720	1.00	19.38	O
ATOM	3861	CB	ARG	B	268	46.434	11.212	75.713	1.00	17.82	C
ATOM	3862	N	GLU	B	269	45.217	12.812	78.206	1.00	18.65	N
ATOM	3863	CA	GLU	B	269	45.297	13.250	79.597	1.00	18.92	C
ATOM	3864	C	GLU	B	269	43.959	13.036	80.322	1.00	18.54	C
ATOM	3865	O	GLU	B	269	43.934	12.647	81.497	1.00	18.09	O
ATOM	3866	CB	GLU	B	269	45.775	14.704	79.666	1.00	19.47	C
ATOM	3867	CG	GLU	B	269	46.966	14.979	78.738	1.00	21.92	C
ATOM	3868	CD	GLU	B	269	47.419	16.436	78.690	1.00	24.77	C
ATOM	3869	OE1	GLU	B	269	46.571	17.354	78.653	1.00	24.51	O
ATOM	3870	OE2	GLU	B	269	48.649	16.667	78.662	1.00	28.26	O
ATOM	3871	N	LEU	B	270	42.856	13.257	79.601	1.00	17.64	N
ATOM	3872	CA	LEU	B	270	41.514	12.934	80.102	1.00	16.64	C
ATOM	3873	C	LEU	B	270	41.332	11.431	80.367	1.00	16.54	C
ATOM	3874	O	LEU	B	270	40.745	11.052	81.385	1.00	16.13	O
ATOM	3875	CB	LEU	B	270	40.421	13.477	79.167	1.00	15.75	C
ATOM	3876	CG	LEU	B	270	40.365	15.011	79.069	1.00	15.92	C
ATOM	3877	CD1	LEU	B	270	39.468	15.471	77.940	1.00	14.68	C
ATOM	3878	CD2	LEU	B	270	39.927	15.641	80.380	1.00	15.30	C
ATOM	3879	N	ILE	B	271	41.844	10.581	79.472	1.00	16.42	N
ATOM	3880	CA	ILE	B	271	41.879	9.130	79.728	1.00	16.73	C
ATOM	3881	C	ILE	B	271	42.555	8.821	81.078	1.00	17.15	C
ATOM	3882	O	ILE	B	271	41.987	8.122	81.918	1.00	17.53	O
ATOM	3883	CB	ILE	B	271	42.560	8.346	78.550	1.00	16.37	C
ATOM	3884	CG1	ILE	B	271	41.714	8.454	77.273	1.00	16.54	C
ATOM	3885	CD1	ILE	B	271	42.422	8.022	75.984	1.00	15.02	C
ATOM	3886	CG2	ILE	B	271	42.723	6.872	78.902	1.00	15.63	C
ATOM	3887	N	ILE	B	272	43.743	9.384	81.294	1.00	17.68	N
ATOM	3888	CA	ILE	B	272	44.536	9.127	82.505	1.00	18.08	C
ATOM	3889	C	ILE	B	272	43.816	9.599	83.774	1.00	18.08	C
ATOM	3890	O	ILE	B	272	43.737	8.875	84.764	1.00	17.54	O
ATOM	3891	CB	ILE	B	272	45.969	9.745	82.360	1.00	18.32	C
ATOM	3892	CG1	ILE	B	272	46.789	8.931	81.355	1.00	18.63	C
ATOM	3893	CD1	ILE	B	272	47.871	9.740	80.611	1.00	20.26	C
ATOM	3894	CG2	ILE	B	272	46.704	9.861	83.716	1.00	17.93	C

FIG. 5MMM

ATOM	3895	N	GLU	B	273	43.255	10.798	83.715	1.00	18.86	N
ATOM	3896	CA	GLU	B	273	42.579	11.397	84.863	1.00	19.99	C
ATOM	3897	C	GLU	B	273	41.308	10.631	85.284	1.00	19.72	C
ATOM	3898	O	GLU	B	273	41.127	10.307	86.458	1.00	19.89	O
ATOM	3899	CB	GLU	B	273	42.278	12.864	84.565	1.00	21.15	C
ATOM	3900	CG	GLU	B	273	42.170	13.788	85.775	1.00	25.51	C
ATOM	3901	CD	GLU	B	273	43.171	13.489	86.872	1.00	28.87	C
ATOM	3902	OE1	GLU	B	273	42.733	13.225	88.011	1.00	31.06	O
ATOM	3903	OE2	GLU	B	273	44.390	13.514	86.602	1.00	31.27	O
ATOM	3904	N	PHE	B	274	40.452	10.304	84.323	1.00	19.07	N
ATOM	3905	CA	PHE	B	274	39.230	9.578	84.632	1.00	18.15	C
ATOM	3906	C	PHE	B	274	39.447	8.089	84.965	1.00	18.34	C
ATOM	3907	O	PHE	B	274	38.716	7.536	85.782	1.00	17.55	O
ATOM	3908	CB	PHE	B	274	38.198	9.779	83.523	1.00	17.98	C
ATOM	3909	CG	PHE	B	274	37.449	11.079	83.624	1.00	16.13	C
ATOM	3910	CD1	PHE	B	274	36.467	11.258	84.594	1.00	16.35	C
ATOM	3911	CE1	PHE	B	274	35.776	12.462	84.696	1.00	16.05	C
ATOM	3912	CZ	PHE	B	274	36.068	13.501	83.811	1.00	14.97	C
ATOM	3913	CE2	PHE	B	274	37.052	13.333	82.853	1.00	14.62	C
ATOM	3914	CD2	PHE	B	274	37.733	12.127	82.761	1.00	15.34	C
ATOM	3915	N	SER	B	275	40.443	7.451	84.341	1.00	18.52	N
ATOM	3916	CA	SER	B	275	40.821	6.071	84.683	1.00	18.91	C
ATOM	3917	C	SER	B	275	41.180	5.949	86.172	1.00	19.17	C
ATOM	3918	O	SER	B	275	40.699	5.057	86.866	1.00	18.84	O
ATOM	3919	CB	SER	B	275	42.007	5.593	83.832	1.00	19.09	C
ATOM	3920	OG	SER	B	275	41.668	5.439	82.463	1.00	19.74	O
ATOM	3921	N	LYS	B	276	42.028	6.862	86.636	1.00	19.68	N
ATOM	3922	CA	LYS	B	276	42.435	6.973	88.035	1.00	20.80	C
ATOM	3923	C	LYS	B	276	41.226	7.129	88.969	1.00	20.51	C
ATOM	3924	O	LYS	B	276	41.137	6.472	90.008	1.00	20.41	O
ATOM	3925	CB	LYS	B	276	43.400	8.160	88.176	1.00	21.66	C
ATOM	3926	CG	LYS	B	276	43.808	8.538	89.595	1.00	24.15	C
ATOM	3927	CD	LYS	B	276	45.169	9.248	89.638	1.00	27.89	C
ATOM	3928	CE	LYS	B	276	45.520	9.965	88.330	1.00	31.05	C
ATOM	3929	NZ	LYS	B	276	44.875	11.319	88.224	1.00	33.09	N
ATOM	3930	N	MET	B	277	40.292	7.985	88.572	1.00	20.28	N
ATOM	3931	CA	MET	B	277	39.066	8.219	89.333	1.00	19.77	C
ATOM	3932	C	MET	B	277	38.148	7.007	89.361	1.00	19.10	C
ATOM	3933	O	MET	B	277	37.528	6.717	90.386	1.00	18.35	O
ATOM	3934	CB	MET	B	277	38.332	9.430	88.772	1.00	20.05	C
ATOM	3935	CG	MET	B	277	39.095	10.718	88.997	1.00	20.14	C
ATOM	3936	SD	MET	B	277	38.213	12.164	88.415	1.00	22.55	S
ATOM	3937	CE	MET	B	277	39.128	13.416	89.378	1.00	20.86	C
ATOM	3938	N	ALA	B	278	38.093	6.297	88.236	1.00	18.93	N
ATOM	3939	CA	ALA	B	278	37.301	5.078	88.089	1.00	19.00	C
ATOM	3940	C	ALA	B	278	37.819	3.920	88.945	1.00	18.84	C
ATOM	3941	O	ALA	B	278	37.104	2.945	89.168	1.00	19.48	O
ATOM	3942	CB	ALA	B	278	37.238	4.663	86.626	1.00	19.11	C
ATOM	3943	N	ARG	B	279	39.060	4.026	89.413	1.00	18.31	N
ATOM	3944	CA	ARG	B	279	39.620	3.043	90.338	1.00	18.31	C
ATOM	3945	C	ARG	B	279	39.111	3.272	91.761	1.00	18.15	C
ATOM	3946	O	ARG	B	279	39.195	2.389	92.606	1.00	18.96	O
ATOM	3947	CB	ARG	B	279	41.146	3.100	90.326	1.00	18.23	C
ATOM	3948	CG	ARG	B	279	41.805	2.512	89.079	1.00	17.47	C
ATOM	3949	CD	ARG	B	279	43.321	2.406	89.195	1.00	15.59	C
ATOM	3950	N	ASP	B	280	38.602	4.468	92.026	1.00	17.90	N
ATOM	3951	CA	ASP	B	280	38.070	4.799	93.337	1.00	17.35	C
ATOM	3952	C	ASP	B	280	36.833	5.694	93.211	1.00	16.86	C
ATOM	3953	O	ASP	B	280	36.835	6.828	93.695	1.00	16.39	O
ATOM	3954	CB	ASP	B	280	39.152	5.482	94.168	1.00	17.42	C

FIG. 5NNN



ATOM	3955	CG	ASP	B	280	38.722	5.721	95.592	1.00	17.58	C
ATOM	3956	OD1	ASP	B	280	37.701	5.134	96.018	1.00	16.77	O
ATOM	3957	OD2	ASP	B	280	39.342	6.480	96.355	1.00	18.66	O
ATOM	3958	N	PRO	B	281	35.776	5.183	92.581	1.00	16.74	N
ATOM	3959	CA	PRO	B	281	34.662	6.028	92.132	1.00	17.14	C
ATOM	3960	C	PRO	B	281	33.827	6.616	93.269	1.00	17.98	C
ATOM	3961	O	PRO	B	281	33.305	7.729	93.113	1.00	17.71	O
ATOM	3962	CB	PRO	B	281	33.816	5.071	91.287	1.00	16.17	C
ATOM	3963	CG	PRO	B	281	34.076	3.745	91.875	1.00	16.96	C
ATOM	3964	CD	PRO	B	281	35.539	3.762	92.263	1.00	17.02	C
ATOM	3965	N	GLN	B	282	33.722	5.895	94.387	1.00	18.55	N
ATOM	3966	CA	GLN	B	282	32.905	6.345	95.509	1.00	19.76	C
ATOM	3967	C	GLN	B	282	33.569	7.462	96.309	1.00	20.19	C
ATOM	3968	O	GLN	B	282	32.955	8.031	97.207	1.00	21.77	O
ATOM	3969	CB	GLN	B	282	32.492	5.169	96.409	1.00	20.07	C
ATOM	3970	CG	GLN	B	282	31.583	4.160	95.701	1.00	21.32	C
ATOM	3971	CD	GLN	B	282	31.110	3.038	96.606	1.00	23.46	C
ATOM	3972	OE1	GLN	B	282	30.267	3.248	97.469	1.00	23.51	O
ATOM	3973	NE2	GLN	B	282	31.642	1.838	96.398	1.00	25.50	N
ATOM	3974	N	ARG	B	283	34.814	7.787	95.983	1.00	20.08	N
ATOM	3975	CA	ARG	B	283	35.465	8.950	96.575	1.00	20.64	C
ATOM	3976	C	ARG	B	283	35.237	10.217	95.720	1.00	20.11	C
ATOM	3977	O	ARG	B	283	35.264	11.342	96.236	1.00	19.20	O
ATOM	3978	CB	ARG	B	283	36.964	8.685	96.761	1.00	21.20	C
ATOM	3979	CG	ARG	B	283	37.812	9.924	96.950	1.00	23.87	C
ATOM	3980	CD	ARG	B	283	39.147	9.854	96.258	1.00	29.31	C
ATOM	3981	NE	ARG	B	283	39.846	11.142	96.233	1.00	33.72	N
ATOM	3982	CZ	ARG	B	283	41.166	11.276	96.354	1.00	35.62	C
ATOM	3983	NH1	ARG	B	283	41.935	10.205	96.525	1.00	36.82	N
ATOM	3984	NH2	ARG	B	283	41.719	12.482	96.318	1.00	36.16	N
ATOM	3985	N	TYR	B	284	35.018	10.025	94.419	1.00	19.02	N
ATOM	3986	CA	TYR	B	284	34.991	11.146	93.484	1.00	19.17	C
ATOM	3987	C	TYR	B	284	33.587	11.647	93.173	1.00	19.39	C
ATOM	3988	O	TYR	B	284	33.400	12.809	92.794	1.00	19.17	O
ATOM	3989	CB	TYR	B	284	35.752	10.802	92.209	1.00	18.39	C
ATOM	3990	CG	TYR	B	284	37.235	10.810	92.427	1.00	17.96	C
ATOM	3991	CD1	TYR	B	284	37.956	9.612	92.544	1.00	17.88	C
ATOM	3992	CE1	TYR	B	284	39.335	9.622	92.757	1.00	16.67	C
ATOM	3993	CZ	TYR	B	284	39.992	10.841	92.866	1.00	17.31	C
ATOM	3994	OH	TYR	B	284	41.346	10.891	93.077	1.00	19.02	O
ATOM	3995	CE2	TYR	B	284	39.300	12.031	92.767	1.00	17.06	C
ATOM	3996	CD2	TYR	B	284	37.925	12.011	92.552	1.00	17.89	C
ATOM	3997	N	LEU	B	285	32.613	10.757	93.342	1.00	19.77	N
ATOM	3998	CA	LEU	B	285	31.206	11.088	93.172	1.00	20.32	C
ATOM	3999	C	LEU	B	285	30.413	10.630	94.390	1.00	20.52	C
ATOM	4000	O	LEU	B	285	30.627	9.535	94.910	1.00	20.32	O
ATOM	4001	CB	LEU	B	285	30.644	10.450	91.899	1.00	20.09	C
ATOM	4002	CG	LEU	B	285	31.270	10.900	90.577	1.00	20.18	C
ATOM	4003	CD1	LEU	B	285	30.599	10.197	89.399	1.00	18.74	C
ATOM	4004	CD2	LEU	B	285	31.191	12.425	90.436	1.00	20.43	C
ATOM	4005	N	VAL	B	286	29.515	11.491	94.841	1.00	20.74	N
ATOM	4006	CA	VAL	B	286	28.710	11.227	96.017	1.00	21.57	C
ATOM	4007	C	VAL	B	286	27.299	10.882	95.569	1.00	22.00	C
ATOM	4008	O	VAL	B	286	26.532	11.760	95.176	1.00	21.78	O
ATOM	4009	CB	VAL	B	286	28.666	12.443	96.979	1.00	21.93	C
ATOM	4010	CG1	VAL	B	286	27.971	12.061	98.289	1.00	21.50	C
ATOM	4011	CG2	VAL	B	286	30.057	12.981	97.242	1.00	20.81	C
ATOM	4012	N	ILE	B	287	26.982	9.592	95.620	1.00	22.91	N
ATOM	4013	CA	ILE	B	287	25.682	9.069	95.224	1.00	23.56	C
ATOM	4014	C	ILE	B	287	24.978	8.518	96.460	1.00	24.37	C

FIG. 5000

ATOM	4015	O	ILE	B	287	25.566	7.749	97.227	1.00	24.24	O
ATOM	4016	CB	ILE	B	287	25.869	7.960	94.163	1.00	23.71	C
ATOM	4017	CG1	ILE	B	287	26.848	8.417	93.056	1.00	24.45	C
ATOM	4018	CD1	ILE	B	287	26.217	8.809	91.717	1.00	24.37	C
ATOM	4019	CG2	ILE	B	287	24.522	7.464	93.640	1.00	22.87	C
ATOM	4020	N	GLN	B	288	23.720	8.911	96.649	1.00	25.68	N
ATOM	4021	CA	GLN	B	288	22.935	8.519	97.827	1.00	26.67	C
ATOM	4022	C	GLN	B	288	22.874	7.005	98.069	1.00	27.26	C
ATOM	4023	O	GLN	B	288	23.109	6.543	99.190	1.00	27.59	O
ATOM	4024	CB	GLN	B	288	21.513	9.073	97.718	1.00	27.30	C
ATOM	4025	N	GLY	B	289	22.561	6.241	97.023	1.00	27.43	N
ATOM	4026	CA	GLY	B	289	22.472	4.791	97.119	1.00	27.67	C
ATOM	4027	C	GLY	B	289	23.782	4.132	97.516	1.00	27.87	C
ATOM	4028	O	GLY	B	289	23.803	2.980	97.949	1.00	28.06	O
ATOM	4029	N	GLU	B	290	24.874	4.865	97.323	1.00	27.98	N
ATOM	4030	CA	GLU	B	290	26.174	4.533	97.891	1.00	28.19	C
ATOM	4031	C	GLU	B	290	26.252	5.344	99.187	1.00	28.28	C
ATOM	4032	O	GLU	B	290	25.465	6.261	99.398	1.00	29.39	O
ATOM	4033	CB	GLU	B	290	27.291	4.889	96.897	1.00	27.86	C
ATOM	4034	CG	GLU	B	290	27.085	4.233	95.529	1.00	27.75	C
ATOM	4035	CD	GLU	B	290	27.996	4.741	94.412	1.00	26.76	C
ATOM	4036	OE1	GLU	B	290	28.759	5.713	94.598	1.00	27.18	O
ATOM	4037	OE2	GLU	B	290	27.949	4.146	93.324	1.00	25.95	O
ATOM	4038	N	GLY	B	291	27.145	5.013	100.095	1.00	27.84	N
ATOM	4039	CA	GLY	B	291	27.055	5.679	101.387	1.00	27.67	C
ATOM	4040	C	GLY	B	291	26.039	5.026	102.317	1.00	26.84	C
ATOM	4041	O	GLY	B	291	25.172	4.273	101.886	1.00	26.95	O
ATOM	4042	N	HIS	B	292	26.144	5.337	103.600	1.00	26.59	N
ATOM	4043	CA	HIS	B	292	25.449	4.590	104.635	1.00	26.57	C
ATOM	4044	C	HIS	B	292	24.255	5.332	105.232	1.00	26.85	C
ATOM	4045	O	HIS	B	292	24.033	6.512	104.948	1.00	26.45	O
ATOM	4046	CB	HIS	B	292	26.446	4.220	105.732	1.00	26.27	C
ATOM	4047	CG	HIS	B	292	26.944	5.394	106.514	1.00	25.62	C
ATOM	4048	ND1	HIS	B	292	28.228	5.878	106.393	1.00	25.87	N
ATOM	4049	CE1	HIS	B	292	28.388	6.908	107.202	1.00	25.43	C
ATOM	4050	NE2	HIS	B	292	27.249	7.115	107.839	1.00	26.23	N
ATOM	4051	CD2	HIS	B	292	26.331	6.179	107.430	1.00	24.56	C
ATOM	4052	N	HIS	B	293	23.503	4.634	106.077	1.00	27.57	N
ATOM	4053	CA	HIS	B	293	22.318	5.207	106.718	1.00	28.31	C
ATOM	4054	C	HIS	B	293	22.485	5.339	108.237	1.00	28.96	C
ATOM	4055	O	HIS	B	293	21.591	4.958	109.012	1.00	28.94	O
ATOM	4056	CB	HIS	B	293	21.088	4.357	106.388	1.00	28.43	C
ATOM	4057	N	HIS	B	294	23.635	5.875	108.655	1.00	29.44	N
ATOM	4058	CA	HIS	B	294	23.952	6.066	110.074	1.00	29.99	C
ATOM	4059	C	HIS	B	294	24.705	7.370	110.290	1.00	30.49	C
ATOM	4060	O	HIS	B	294	25.869	7.372	110.702	1.00	30.87	O
ATOM	4061	CB	HIS	B	294	24.785	4.905	110.612	1.00	29.51	C
ATOM	4062	CG	HIS	B	294	24.199	3.559	110.332	1.00	29.56	C
ATOM	4063	ND1	HIS	B	294	22.922	3.211	110.715	1.00	28.90	N
ATOM	4064	CE1	HIS	B	294	22.675	1.972	110.329	1.00	29.26	C
ATOM	4065	NE2	HIS	B	294	23.748	1.502	109.718	1.00	29.18	N
ATOM	4066	CD2	HIS	B	294	24.717	2.474	109.708	1.00	28.78	C
ATOM	4067	N	HIS	B	295	24.043	8.479	109.992	1.00	30.81	N
ATOM	4068	CA	HIS	B	295	24.641	9.786	110.191	1.00	31.27	C
ATOM	4069	C	HIS	B	295	24.101	10.403	111.471	1.00	31.79	C
ATOM	4070	O	HIS	B	295	22.910	10.723	111.568	1.00	31.64	O
ATOM	4071	CB	HIS	B	295	24.382	10.685	108.978	1.00	31.22	C
ATOM	4072	CG	HIS	B	295	25.066	10.222	107.731	1.00	30.61	C
ATOM	4073	ND1	HIS	B	295	26.382	10.522	107.449	1.00	31.05	N
ATOM	4074	CE1	HIS	B	295	26.715	9.979	106.292	1.00	30.84	C

FIG. 5PPP

ATOM	4075	NE2	HIS	B	295	25.666	9.331	105.818	1.00	30.64	N
ATOM	4076	CD2	HIS	B	295	24.623	9.467	106.700	1.00	30.41	C
ATOM	4077	N	HIS	B	296	24.986	10.537	112.457	1.00	32.57	N
ATOM	4078	CA	HIS	B	296	24.641	11.108	113.755	1.00	33.22	C
ATOM	4079	C	HIS	B	296	25.464	12.369	114.009	1.00	33.60	C
ATOM	4080	O	HIS	B	296	25.440	13.310	113.205	1.00	33.93	O
ATOM	4081	CB	HIS	B	296	24.856	10.087	114.880	1.00	33.38	C
ATOM	4082	CG	HIS	B	296	24.010	8.859	114.754	1.00	33.96	C
ATOM	4083	ND1	HIS	B	296	24.213	7.914	113.769	1.00	35.11	N
ATOM	4084	CE1	HIS	B	296	23.319	6.949	113.897	1.00	35.18	C
ATOM	4085	NE2	HIS	B	296	22.541	7.234	114.928	1.00	34.93	N
ATOM	4086	CD2	HIS	B	296	22.952	8.424	115.480	1.00	34.60	C
TER	4087		HIS	B	296						
HETATM	4088	O	HOH	W	1	28.998	7.797	96.214	1.00	5.45	O
HETATM	4089	O	HOH	W	2	42.694	30.033	78.928	1.00	15.99	O
HETATM	4090	O	HOH	W	3	14.284	24.355	-1.705	1.00	31.92	O
HETATM	4091	O	HOH	W	4	9.434	2.124	25.854	1.00	12.89	O
HETATM	4092	O	HOH	W	5	11.686	18.337	20.467	1.00	19.43	O
HETATM	4093	O	HOH	W	6	28.232	0.015	63.543	1.00	23.69	O
HETATM	4094	O	HOH	W	7	32.566	18.198	69.464	1.00	16.45	O
HETATM	4095	O	HOH	W	8	26.983	7.994	103.693	1.00	28.59	O
HETATM	4096	O	HOH	W	9	34.576	20.314	67.899	1.00	13.64	O
HETATM	4097	O	HOH	W	10	22.822	24.473	71.792	1.00	14.22	O
HETATM	4098	O	HOH	W	11	42.907	16.304	72.715	1.00	17.29	O
HETATM	4099	O	HOH	W	12	17.470	20.215	83.374	1.00	14.31	O
HETATM	4100	O	HOH	W	13	1.076	16.872	17.542	1.00	17.35	O
HETATM	4101	O	HOH	W	14	20.657	17.529	73.818	1.00	14.37	O
HETATM	4102	O	HOH	W	15	38.164	24.544	61.487	1.00	25.36	O
HETATM	4103	O	HOH	W	16	41.611	2.775	62.349	1.00	16.19	O
HETATM	4104	O	HOH	W	17	22.137	2.221	23.260	1.00	20.64	O
HETATM	4105	O	HOH	W	18	14.764	24.583	13.369	1.00	10.86	O
HETATM	4106	O	HOH	W	19	40.188	2.839	85.624	1.00	27.07	O
HETATM	4107	O	HOH	W	20	1.841	30.006	10.579	1.00	21.05	O
HETATM	4108	O	HOH	W	21	40.127	2.221	72.748	1.00	28.26	O
HETATM	4109	O	HOH	W	22	13.323	6.174	-5.504	1.00	18.62	O
HETATM	4110	O	HOH	W	23	34.315	1.583	64.924	1.00	16.89	O
HETATM	4111	O	HOH	W	24	21.460	7.245	94.994	1.00	29.64	O
HETATM	4112	O	HOH	W	25	-0.062	6.376	21.264	1.00	21.21	O
HETATM	4113	O	HOH	W	26	33.676	-4.733	22.767	1.00	25.95	O
HETATM	4114	O	HOH	W	27	29.411	25.141	76.288	1.00	12.37	O
HETATM	4115	O	HOH	W	28	13.514	0.588	25.186	1.00	22.58	O
HETATM	4116	O	HOH	W	29	35.216	16.749	60.751	1.00	34.92	O
HETATM	4117	O	HOH	W	30	29.873	0.309	65.863	1.00	22.64	O
HETATM	4118	O	HOH	W	31	39.650	17.942	97.058	1.00	14.17	O
HETATM	4119	O	HOH	W	32	15.423	0.311	27.412	1.00	29.42	O
HETATM	4120	O	HOH	W	33	24.729	15.715	90.114	1.00	16.40	O
HETATM	4121	O	HOH	W	34	11.022	23.047	19.968	1.00	28.41	O
HETATM	4122	O	HOH	W	35	15.226	26.439	14.982	1.00	10.40	O
HETATM	4123	O	HOH	W	36	29.549	7.754	98.929	1.00	31.05	O
HETATM	4124	O	HOH	W	37	24.144	13.769	108.784	1.00	19.16	O
HETATM	4125	O	HOH	W	38	44.398	22.138	81.434	1.00	22.62	O
HETATM	4126	O	HOH	W	39	30.484	26.026	80.696	1.00	16.25	O
HETATM	4127	O	HOH	W	40	23.926	2.662	21.574	1.00	38.97	O
HETATM	4128	O	HOH	W	41	24.201	23.722	11.877	1.00	22.52	O
HETATM	4129	O	HOH	W	42	38.768	14.851	67.829	1.00	18.62	O
HETATM	4130	O	HOH	W	43	20.593	10.669	109.434	1.00	25.90	O
HETATM	4131	O	HOH	W	44	9.833	38.268	17.805	1.00	40.12	O
HETATM	4132	O	HOH	W	45	31.806	15.563	61.831	1.00	38.92	O
HETATM	4133	O	HOH	W	46	46.648	15.389	67.532	1.00	45.52	O
HETATM	4134	O	HOH	W	47	7.194	26.606	7.278	1.00	24.59	O

FIG. 5QQQ

HETATM	4135	O	HOH	W	48	32.345	9.389	45.870	1.00	37.43	O
HETATM	4136	O	HOH	W	49	34.408	-0.038	92.412	1.00	30.28	O
HETATM	4137	O	HOH	W	50	29.018	26.702	74.110	1.00	12.47	O
HETATM	4138	O	HOH	W	51	26.345	37.094	83.883	1.00	44.10	O
HETATM	4139	O	HOH	W	52	17.751	17.183	85.261	1.00	29.92	O
HETATM	4140	O	HOH	W	53	8.300	30.037	4.708	1.00	30.49	O
HETATM	4141	O	HOH	W	54	7.052	1.135	-4.627	1.00	50.89	O
HETATM	4142	O	HOH	W	55	10.934	5.449	56.316	1.00	59.86	O
HETATM	4143	O	HOH	W	56	9.455	20.642	21.947	1.00	16.62	O
HETATM	4144	O	HOH	W	57	36.716	27.172	82.502	1.00	28.06	O
HETATM	4145	O	HOH	W	58	21.316	4.587	29.057	1.00	19.72	O
HETATM	4146	O	HOH	W	59	25.658	12.245	41.218	1.00	37.60	O
HETATM	4147	O	HOH	W	60	19.391	9.604	99.993	1.00	34.08	O
HETATM	4148	O	HOH	W	61	12.023	36.817	22.931	1.00	30.96	O
HETATM	4149	O	HOH	W	62	18.695	36.508	6.780	1.00	42.88	O
HETATM	4150	O	HOH	W	63	29.545	25.882	90.977	1.00	26.81	O
HETATM	4151	O	HOH	W	64	22.863	13.391	21.494	1.00	34.76	O
HETATM	4152	O	HOH	W	65	2.066	3.306	28.674	1.00	25.12	O
HETATM	4153	O	HOH	W	66	21.290	17.351	78.158	1.00	22.87	O
HETATM	4154	O	HOH	W	67	17.483	6.317	73.617	1.00	28.08	O
HETATM	4155	O	HOH	W	68	32.056	1.581	48.187	1.00	34.21	O
HETATM	4156	O	HOH	W	69	27.862	18.784	70.341	1.00	18.12	O
HETATM	4157	O	HOH	W	70	16.168	15.234	27.154	1.00	18.67	O
HETATM	4158	O	HOH	W	71	27.548	-1.447	15.790	1.00	28.43	O
HETATM	4159	O	HOH	W	72	-3.252	8.681	19.344	1.00	28.54	O
HETATM	4160	O	HOH	W	73	21.775	24.157	17.335	1.00	31.82	O
HETATM	4161	O	HOH	W	74	32.097	-6.189	21.261	1.00	36.61	O
HETATM	4162	O	HOH	W	75	5.334	15.234	22.514	1.00	22.29	O
HETATM	4163	O	HOH	W	76	26.436	16.890	13.243	1.00	46.48	O
HETATM	4164	O	HOH	W	77	26.507	8.991	99.475	1.00	28.94	O
HETATM	4165	O	HOH	W	78	13.365	25.042	8.721	1.00	29.68	O
HETATM	4166	O	HOH	W	79	-2.835	16.211	22.213	1.00	42.69	O
HETATM	4167	O	HOH	W	80	-0.806	13.507	17.668	1.00	18.89	O
HETATM	4168	O	HOH	W	81	-2.772	7.883	14.041	1.00	36.25	O
HETATM	4169	O	HOH	W	82	14.336	-0.374	52.681	1.00	29.69	O
HETATM	4170	O	HOH	W	83	30.767	13.361	30.094	1.00	32.30	O
HETATM	4171	O	HOH	W	84	24.728	15.959	112.079	1.00	15.48	O
HETATM	4172	O	HOH	W	85	18.585	5.073	76.156	1.00	20.77	O
HETATM	4173	O	HOH	W	86	12.087	6.987	28.731	1.00	16.34	O
HETATM	4174	O	HOH	W	87	22.672	3.132	47.075	1.00	25.24	O
HETATM	4175	O	HOH	W	88	13.707	29.144	2.429	1.00	47.19	O
HETATM	4176	O	HOH	W	89	22.063	15.088	91.588	1.00	31.79	O
HETATM	4177	O	HOH	W	90	1.459	6.344	18.792	1.00	27.32	O
HETATM	4178	O	HOH	W	91	22.534	16.855	11.275	1.00	15.54	O
HETATM	4179	O	HOH	W	92	30.290	7.211	65.189	1.00	34.30	O
HETATM	4180	O	HOH	W	93	40.141	30.593	80.818	1.00	26.41	O
HETATM	4181	O	HOH	W	94	24.536	-1.198	108.080	1.00	42.66	O
HETATM	4182	O	HOH	W	95	20.853	15.313	15.256	1.00	18.03	O
HETATM	4183	O	HOH	W	96	44.683	13.196	72.750	1.00	24.69	O
HETATM	4184	O	HOH	W	97	11.740	1.454	42.593	1.00	45.99	O
HETATM	4185	O	HOH	W	98	39.581	13.869	96.751	1.00	30.88	O
HETATM	4186	O	HOH	W	99	29.670	2.495	92.023	1.00	25.37	O
HETATM	4187	O	HOH	W	100	20.178	12.119	64.978	1.00	28.53	O
HETATM	4188	O	HOH	W	101	9.026	2.563	69.045	1.00	36.54	O
HETATM	4189	O	HOH	W	102	4.213	30.389	9.007	1.00	24.44	O
HETATM	4190	O	HOH	W	103	19.707	24.186	77.524	1.00	18.74	O
HETATM	4191	O	HOH	W	104	28.504	18.843	96.342	1.00	34.10	O
HETATM	4192	O	HOH	W	105	28.044	9.665	20.495	1.00	50.29	O
HETATM	4193	O	HOH	W	106	41.926	5.529	72.212	1.00	34.69	O
HETATM	4194	O	HOH	W	107	22.321	10.701	67.907	1.00	32.90	O

FIG. 5RRR

HETATM	4195	O	HOH	W	108	15.633	22.526	83.643	1.00	23.10	O
HETATM	4196	O	HOH	W	109	23.131	15.975	74.461	1.00	21.55	O
HETATM	4197	O	HOH	W	110	20.206	-1.361	3.237	1.00	24.94	O
HETATM	4198	O	HOH	W	111	25.315	4.505	14.304	1.00	25.25	O
HETATM	4199	O	HOH	W	112	11.883	15.625	28.119	1.00	39.37	O
HETATM	4200	O	HOH	W	113	18.166	32.386	17.278	1.00	24.17	O
HETATM	4201	O	HOH	W	114	-2.720	14.293	24.689	1.00	30.63	O
HETATM	4202	O	HOH	W	115	37.824	15.970	60.577	1.00	33.16	O
HETATM	4203	O	HOH	W	116	48.148	29.585	73.317	1.00	29.82	O
HETATM	4204	O	HOH	W	117	27.520	13.412	42.579	1.00	31.21	O
HETATM	4205	O	HOH	W	118	15.247	11.867	76.998	1.00	18.28	O
HETATM	4206	O	HOH	W	119	40.508	24.823	69.040	1.00	22.36	O
HETATM	4207	O	HOH	W	120	30.616	39.569	77.139	1.00	37.78	O
HETATM	4208	O	HOH	W	121	24.291	11.180	25.560	1.00	30.20	O
HETATM	4209	O	HOH	W	122	4.042	25.207	20.826	1.00	22.39	O
HETATM	4210	O	HOH	W	123	29.792	14.975	63.464	1.00	26.82	O
HETATM	4211	O	HOH	W	124	21.491	3.300	43.251	1.00	29.55	O
HETATM	4212	O	HOH	W	125	-2.406	5.673	5.899	1.00	40.95	O
HETATM	4213	O	HOH	W	126	41.952	0.853	64.026	1.00	39.40	O
HETATM	4214	O	HOH	W	127	26.223	32.496	71.464	1.00	20.59	O
HETATM	4215	O	HOH	W	128	41.042	17.410	89.676	1.00	22.01	O
HETATM	4216	O	HOH	W	129	16.372	13.385	48.181	1.00	26.56	O
HETATM	4217	O	HOH	W	130	11.751	-0.808	7.821	1.00	34.38	O
HETATM	4218	O	HOH	W	131	16.558	15.676	34.571	1.00	27.55	O
HETATM	4219	O	HOH	W	132	23.715	-1.482	0.235	1.00	25.41	O
HETATM	4220	O	HOH	W	133	26.293	12.543	37.315	1.00	31.89	O
HETATM	4221	O	HOH	W	134	14.899	3.023	-3.088	1.00	34.89	O
HETATM	4222	O	HOH	W	135	26.593	-11.074	49.839	1.00	39.76	O
HETATM	4223	O	HOH	W	136	15.743	30.206	24.249	1.00	31.35	O
HETATM	4224	O	HOH	W	137	42.127	14.189	92.996	1.00	31.84	O
HETATM	4225	O	HOH	W	138	29.099	8.319	61.777	1.00	34.30	O
HETATM	4226	O	HOH	W	139	17.387	15.237	55.947	1.00	37.57	O
HETATM	4227	O	HOH	W	140	39.225	28.436	85.846	1.00	37.70	O
HETATM	4228	O	HOH	W	141	18.972	32.465	70.632	1.00	35.06	O
HETATM	4229	O	HOH	W	142	17.480	17.370	27.959	1.00	42.72	O
HETATM	4230	O	HOH	W	143	17.684	35.863	15.728	1.00	40.59	O
HETATM	4231	O	HOH	W	144	33.135	22.579	69.723	1.00	34.19	O
HETATM	4232	O	HOH	W	145	19.206	21.593	75.835	1.00	39.22	O
HETATM	4233	O	HOH	W	146	22.243	7.202	91.152	1.00	38.82	O
HETATM	4234	O	HOH	W	147	24.911	14.181	43.275	1.00	41.58	O
HETATM	4235	O	HOH	W	148	22.856	-12.981	28.140	1.00	39.84	O
HETATM	4236	O	HOH	W	149	22.202	-8.821	40.526	1.00	40.27	O
HETATM	4237	O	HOH	W	150	21.291	37.012	72.400	1.00	43.51	O
HETATM	4238	O	HOH	W	151	22.094	-11.920	56.697	1.00	36.84	O
HETATM	4239	O	HOH	W	152	13.637	16.495	29.478	1.00	40.50	O
HETATM	4240	O	HOH	W	153	21.255	21.183	48.853	1.00	42.81	O
HETATM	4241	O	HOH	W	154	41.602	15.939	96.547	1.00	34.07	O
HETATM	4242	O	HOH	W	155	23.933	13.479	26.357	1.00	43.11	O
HETATM	4243	O	HOH	W	156	18.066	2.265	-8.683	1.00	41.94	O
HETATM	4244	O	HOH	W	157	1.561	20.646	25.469	1.00	41.00	O
HETATM	4245	O	HOH	W	158	25.489	32.498	17.399	1.00	36.46	O
HETATM	4246	O	HOH	W	159	14.812	-6.860	22.670	1.00	36.94	O
HETATM	4247	O	HOH	W	160	16.597	18.943	19.645	1.00	34.23	O
HETATM	4248	O	HOH	W	161	17.808	4.769	51.095	1.00	41.29	O
END											

FIG. 5SSS

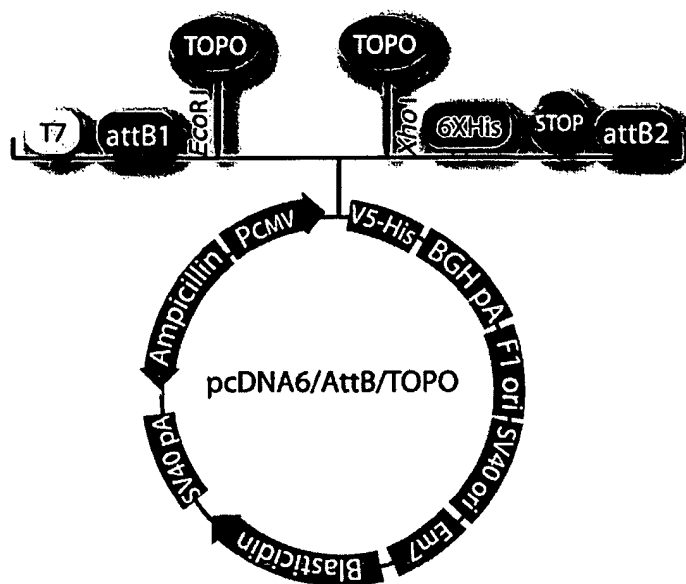


FIG. 6

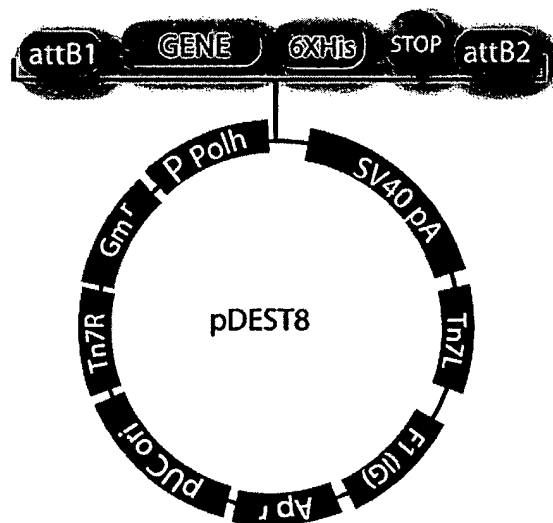


FIG. 7